

SHARP SERVICE MANUAL

No. XXXXXXXXXXXXXXXX

HOME CINEMA WITH DVD

MODEL HT-CN400DVH

HT-CN400DVH Home Cinema with DVD consisting of HT-CN400DVH (main unit), CP-CN400HF (front speakers), CP-CN400HC (center speaker), CP-CN400HR (surround speakers) and CP-CN400HSW.

HOME CINEMA WITH DVD

MODEL HT-CN400DVE

HT-CN400DVE Home Cinema with DVD consisting of HT-CN400DVE (main unit), CP-CN400EF (front speakers), CP-CN400EC (center speaker), CP-CN400ER (surround speakers) and CP-CN400ESW.

HOME CINEMA WITH DVD

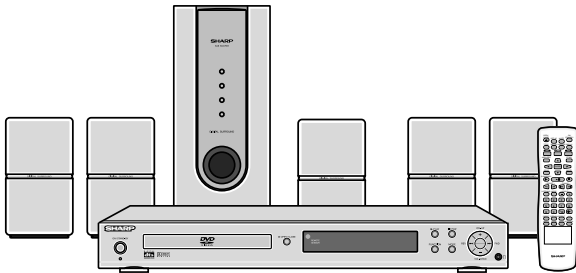
MODEL HT-CN500DVH

HT-CN500DVH Home Cinema with DVD consisting of HT-CN500DVH (main unit), CP-CN500HF (front speakers), CP-CN500HC (center speaker), CP-CN500HR (surround speakers) and CP-CN500HSW.

HOME CINEMA WITH DVD

MODEL HT-CN500DVE

HT-CN500DVE Home Cinema with DVD consisting of HT-CN500DVE (main unit), CP-CN500EF (front speakers), CP-CN500EC (center speaker), CP-CN500ER (surround speakers) and CP-CN500ESW.



- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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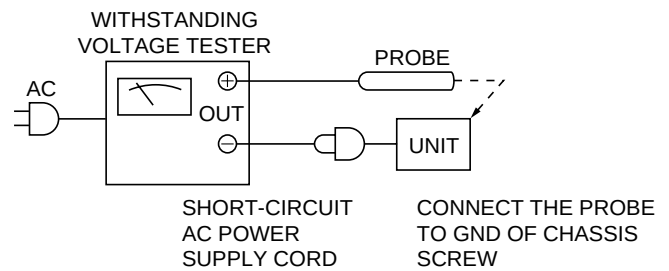
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IMPORTANT SERVICE NOTES (FOR HT-CN400DVE/HT-CN500DVE ONLY)

Before returning the unit to the customer after completion of a repair or adjustment it is necessary for the following withstand voltage test to be applied to ensure the unit is safe for the customer to use.

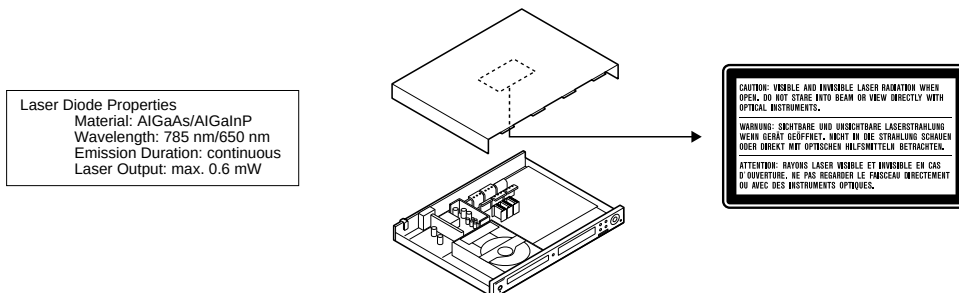
Setting of Withstanding Voltage Tester and set.

Set name	set value
Withstanding Voltage Tester	
Test voltage	4,240 VPEAK 3,000 VRMS
Set time	6 secs
Set current (Cutoff current)	4 mA
Unit	
Judgment	
OK: The "GOOD" lamp lights.	
NG: The "NG" lamp lights and the buzzer sounds.	

**SAFETY PRECAUTION FOR SERVICE MANUAL****Precaution to be taken when replacing and servicing the Laser Pickup.**

The AEL (Accessible Emission Level) of Laser Power Output for this model is specified to be lower than Class 1 Requirements. However, the following precautions must be observed during servicing to protect your eyes against exposure to the Laser beam.

- (1) When the cabinet has been removed, the power is turned on without a compact disc, and the Pickup is on a position outer than the lead-in position, the Laser will light for several seconds to detect a disc. Do not look into the Pickup Lens.
- (2) The Laser Power Output of the Pickup inside the unit and replacement service parts have already been adjusted prior to shipping.
- (3) No adjustment to the Laser Power should be attempted when replacing or servicing the Pickup.
- (4) Under no circumstances look directly into the Pickup Lens at any time.
- (5) CAUTION - Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.



ADVERSEL-SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER.

VARO! AVATTAESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE ÄLÄ TUIJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEENLÄPI.

VARNING-SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRakta EJ STRÅLEN GENOM OPTISKT INSTRUMENT.

VAROITUS! LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VARNING - OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERAS. KAN ANVÄNDAREN UTSÄTTAS FÖR SYNLIG OCH OSYNLIG LASERSTRÅLNING, SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

HT-CN400DVH/HT-CN500DVH

■ General

Power source	AC 230 V, 50 Hz
Power consumption	HT-CN400DVH: Power on: 88 W Power stand-by: 0.6 W HT-CN500DVH: Power on: 105 W Power stand-by: 0.6 W
Dimensions	Width: 430 mm (16-7/8") Height: 53 mm (2-1/8") Depth: 337 mm (13-1/4")
Weight	4.2 kg (9.3 lbs.)
Audio input terminals	Analogue input (IN 1): RCA type × 1 pair (L/R) Analogue input (IN 2): RCA type × 1 pair (L/R)
Audio output terminals	Analogue output (OUT): RCA type × 1 pair (L/R) Headphones: 16 - 50 ohms (recommended: 32 ohms)
Video output terminals	SCART output: SCART terminal × 1 S-video output: S-terminal × 1 Video output: RCA type × 1

■ Amplifier (HT-CN400DVH)

Output power	Front speakers: RMS: 60 W (30 W + 30 W) (10 % T.H.D., 1 kHz) Centre speaker: RMS: 30 W (10 % T.H.D., 1 kHz) Surround speakers: RMS: 60 W (30 W + 30 W) (10 % T.H.D., 1 kHz) Subwoofer: RMS: 50 W (10 % T.H.D., 100 Hz)
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■ Amplifier (HT-CN500DVH)

Output power	Front speakers: RMS: 100 W (50 W + 50 W) (10 % T.H.D., 1 kHz) Centre speaker: RMS: 50 W (10 % T.H.D., 1 kHz) Surround speakers: RMS: 100 W (50 W + 50 W) (10 % T.H.D., 1 kHz) Subwoofer: RMS: 50 W (10 % T.H.D., 100 Hz)
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■ DVD player

Signal system	PAL/NTSC colour								
Supported disc types	DVD (Region number 2, ALL), SVCD, VCD, audio CD, CD-R, CD-RW, MP3								
Video signal	Horizontal resolution: 500 lines S/N ratio: 70 dB								
Audio signal	<table> <tr> <td>Frequency characteristics</td><td>Linear PCM DVD: 20 Hz to 20 kHz (sampling rate: 48 kHz) 20 Hz to 20 kHz (sampling rate: 96 kHz) CD: 20 Hz to 20 kHz</td></tr> <tr> <td>S/N ratio</td><td>CD: 94 dB (1 kHz)</td></tr> <tr> <td>Dynamic range</td><td>Linear PCM DVD: 95 dB CD: 94 dB</td></tr> <tr> <td>Total harmonic distortion ratio</td><td>0.01 % maximum</td></tr> </table>	Frequency characteristics	Linear PCM DVD: 20 Hz to 20 kHz (sampling rate: 48 kHz) 20 Hz to 20 kHz (sampling rate: 96 kHz) CD: 20 Hz to 20 kHz	S/N ratio	CD: 94 dB (1 kHz)	Dynamic range	Linear PCM DVD: 95 dB CD: 94 dB	Total harmonic distortion ratio	0.01 % maximum
Frequency characteristics	Linear PCM DVD: 20 Hz to 20 kHz (sampling rate: 48 kHz) 20 Hz to 20 kHz (sampling rate: 96 kHz) CD: 20 Hz to 20 kHz								
S/N ratio	CD: 94 dB (1 kHz)								
Dynamic range	Linear PCM DVD: 95 dB CD: 94 dB								
Total harmonic distortion ratio	0.01 % maximum								

■ Tuner

Frequency range	FM: 87.5 - 108 MHz AM: 522 - 1,620 kHz
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CP-CN400HF/CP-CN500HF/CP-CN400HC/CP-CN500HC

Type	Full range speaker system (magnetic shield) 8 cm (3-1/8") speaker
Maximum input power	HT-CN400DVH: 45 W HT-CN500DVH: 60 W
Impedance	HT-CN400DVH: 8 ohms HT-CN500DVH: 6 ohms
Dimensions	Width: 94 mm (3-3/4") Height: 169 mm (6-5/8") Depth: 97 mm (3-7/8")
Weight	0.6 kg (1.3 lbs.)/each

CP-CN400HR/CP-CN500HR

Type	Full range speaker system 8 cm (3-1/8") speaker
Maximum input power	HT-CN400DVH: 45 W HT-CN500DVH: 60 W
Impedance	HT-CN400DVH: 8 ohms HT-CN500DVH: 6 ohms
Dimensions	Width: 94 mm (3-3/4") Height: 169 mm (6-5/8") Depth: 97 mm (3-7/8")
Weight	0.6 kg (1.3 lbs.)/each

CP-CN400HSW/CP-CN500HSW

Type	Sub-woofer system 15 cm (6-1/2") subwoofer
Maximum input power	75 W
Impedance	6 ohms
Dimensions	Width: 135 mm (5-5/16") Height: 338 mm (13-5/16") Depth: 375 mm (14-3/4")
Weight	5.3 kg (11.7 lbs.)

Specifications for this model are subject to change without prior notice.

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

HT-CN400DVE/HT-CN500DVE

General

Power source	AC 230 V, 50 Hz
Power consumption	HT-CN400DVE: Power on: 88 W Power stand-by: 0.6 W HT-CN500DVE: Power on: 105 W Power stand-by: 0.6 W
Dimensions	Width: 430 mm (16-7/8") Height: 53 mm (2-1/8") Depth: 337 mm (13-1/4")
Weight	4.2 kg (9.3 lbs.)
Audio input terminals	Analogue input (IN 1): RCA type × 1 pair (L/R) Analogue input (IN 2): RCA type × 1 pair (L/R)
Audio output terminals	Analogue output (OUT): RCA type × 1 pair (L/R) Headphones: 16 - 50 ohms (recommended: 32 ohms)
Video output terminals	SCART output: SCART terminal × 1 S-video output: S-terminal × 1 Video output: RCA type × 1

Amplifier (HTCN400DVE)

Output power	Front speakers: RMS: 60 W (30 W + 30 W) (10 % T.H.D., 1 kHz) Centre speaker: RMS: 30 W (10 % T.H.D., 1 kHz) Surround speakers: RMS: 60 W (30 W + 30 W) (10 % T.H.D., 1 kHz) Subwoofer: RMS: 50 W (10 % T.H.D., 100 Hz)
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Amplifier (HTCN500DVE)

Output power	Front speakers: RMS: 100 W (50 W + 50 W) (10 % T.H.D., 1 kHz) Centre speaker: RMS: 50 W (10 % T.H.D., 1 kHz) Surround speakers: RMS: 100 W (50 W + 50 W) (10 % T.H.D., 1 kHz) Subwoofer: RMS: 50 W (10 % T.H.D., 100 Hz)
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DVD player

Signal system	PAL/NTSC colour								
Supported disc types	DVD (Region number 2, ALL), SVCD, VCD, audio CD, CD-R, CD-RW, MP3								
Video signal	Horizontal resolution: 500 lines S/N ratio: 70 dB								
Audio signal	<table> <tr> <td>Frequency characteristics</td><td>Linear PCM DVD: 20 Hz to 20 kHz (sampling rate: 48 kHz) 20 Hz to 20 kHz (sampling rate: 96 kHz) CD: 20 Hz to 20 kHz</td></tr> <tr> <td>S/N ratio</td><td>CD: 94 dB (1 kHz)</td></tr> <tr> <td>Dynamic range</td><td>Linear PCM DVD: 95 dB CD: 94 dB</td></tr> <tr> <td>Total harmonic distortion ratio</td><td>0.01 % maximum</td></tr> </table>	Frequency characteristics	Linear PCM DVD: 20 Hz to 20 kHz (sampling rate: 48 kHz) 20 Hz to 20 kHz (sampling rate: 96 kHz) CD: 20 Hz to 20 kHz	S/N ratio	CD: 94 dB (1 kHz)	Dynamic range	Linear PCM DVD: 95 dB CD: 94 dB	Total harmonic distortion ratio	0.01 % maximum
Frequency characteristics	Linear PCM DVD: 20 Hz to 20 kHz (sampling rate: 48 kHz) 20 Hz to 20 kHz (sampling rate: 96 kHz) CD: 20 Hz to 20 kHz								
S/N ratio	CD: 94 dB (1 kHz)								
Dynamic range	Linear PCM DVD: 95 dB CD: 94 dB								
Total harmonic distortion ratio	0.01 % maximum								

Tuner

Frequency range	FM: 87.5 -108 MHz AM: 522 - 1,620 kHz
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CP-CN400EF/CP-CN500EF/CP-CN400EC/CP-CN500EC

Type	Full range speaker system (magnetic shield) 8 cm (3-1/8") Speaker
Maximum input power	HT-CN400DVE: 45 W HT-CN500DVE: 60 W
Impedance	HT-CN400DVE: 8 ohms HT-CN500DVE: 6 ohms
Dimensions	Width: 94 mm (3-3/4") Height: 169 mm (6-5/8") Depth: 97 mm (3-7/8")
Weight	0.6 kg (1.3 lbs.)/each

CP-CN400ER/CP-CN500ER

Type	Full range speaker system 8 cm (3-1/8") Speaker
Maximum input power	HT-CN400DVE: 45 W HT-CN500DVE: 60 W
Impedance	HT-CN400DVE: 8 ohms HT-CN500DVE: 6 ohms
Dimensions	Width: 94 mm (3-3/4") Height: 169 mm (6-5/8") Depth: 97 mm (3-7/8")
Weight	0.6 kg (1.3 lbs.)/each

CP-CN400ESW/CP-CN500ESW

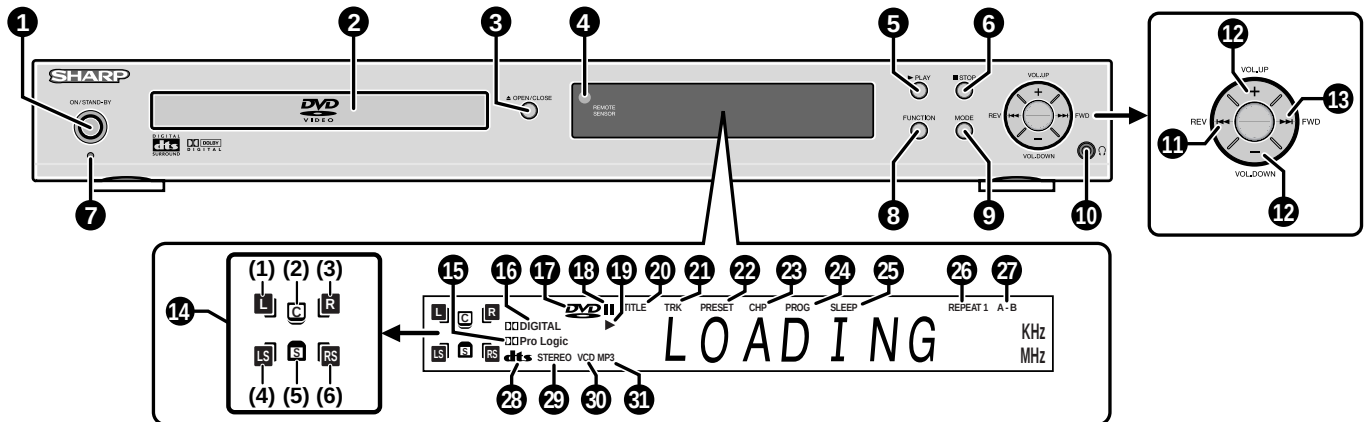
Type	Sub-woofer system 15 cm (6-1/2") Subwoofer
Maximum input power	75 W
Impedance	6 ohms
Dimensions	Width: 135 mm (5-5/16") Height: 338 mm (13-5/16") Depth: 375 mm (14-3/4")
Weight	5.3 kg (11.7 lbs.)

Specifications for this model are subject to change without prior notice.

NAMES OF PARTS

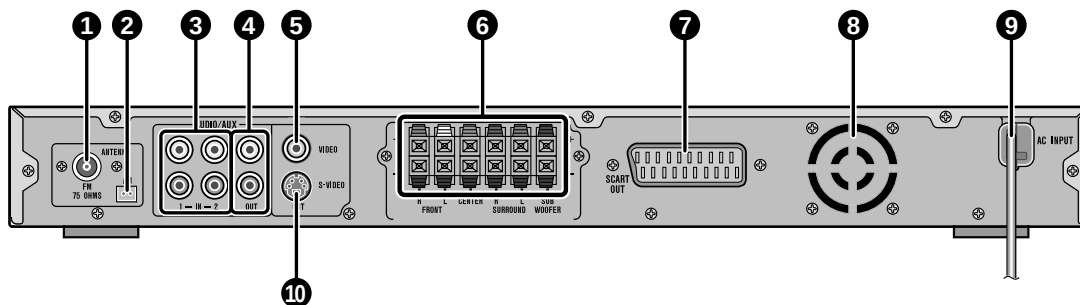
HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

■ Main unit (front panel)



- | | |
|--|--|
| 1. On/Stand-by Button | 15. Dolby Pro Logic Indicator |
| 2. Disc Tray | 16. Dolby Digital Signal Indicator |
| 3. Disc Tray Open/Close Button | 17. DVD Indicator |
| 4. Remote Sensor | 18. Pause Indicator |
| 5. Play or Pause Button | 19. Play Indicator |
| 6. Stop Button | 20. Title Indicator |
| 7. Power Stand-by Indicator | 21. Track Indicator |
| 8. Function Button | 22. Tuner Preset Indicator |
| 9. Speaker Level Mode Button | 23. Chapter Indicator |
| 10. Headphone Socket | 24. Programme Indicator |
| 11. Chapter (track) Skip Down or Tuning Down Button | 25. Sleep Indicator |
| 12. Volume Up and Down or Speaker Level Adjust Buttons | 26. Repeat Indicator |
| 13. Chapter (track) Skip Up or Tuning Up Button | 27. A - B Repeat Indicator |
| 14. Speaker Indicators | 28. DTS Signal Indicator |
| (1) Left Front Speaker Indicator | 29. Stereo (2-ch) or FM Stereo Receiving Indicator |
| (2) Centre Speaker Indicator | 30. SVCD/VCD/CD Indicator |
| (3) Right Front Speaker Indicator | 31. MP3 or JPEG Indicator |
| (4) Left Surround Speaker Indicator | |
| (5) Subwoofer Indicator | |
| (6) Right Surround Speaker Indicator | |

■ Main unit (rear panel)



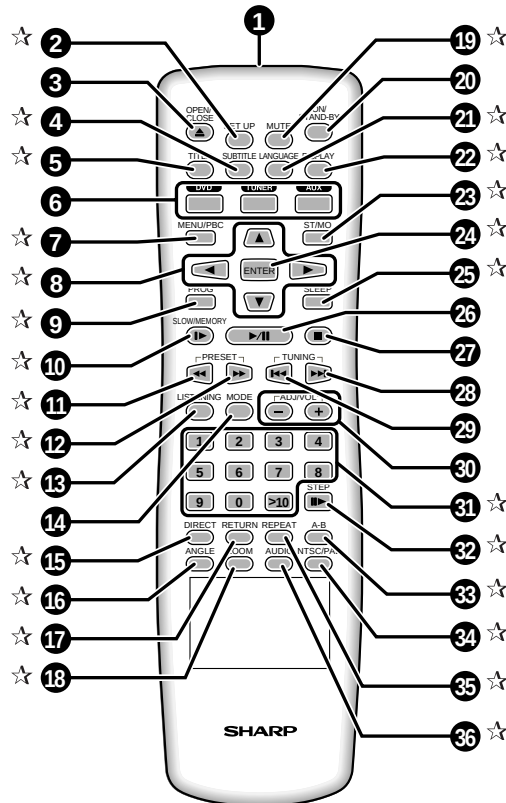
- | | |
|-----------------------------|---------------------------|
| 1. FM 75 Ohms Aerial Socket | 6. Speaker Terminals |
| 2. AM Loop Aerial Socket | 7. SCART Output Socket |
| 3. Audio Input Sockets 1/2 | 8. Cooling Fan |
| 4. Audio Output Sockets | 9. AC Power Lead |
| 5. Video Output Socket | 10. S-video Output Socket |

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

Remote control

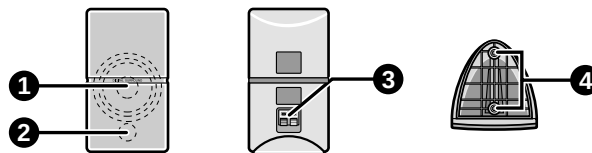
1. Remote Control Transmitter
2. **Set Up Menu Button**
3. Disc Tray Open/Close Button
4. **Subtitle Select Button**
5. **Title Select Button**
6. DVD/Tuner/Auxiliary Input Select Buttons
7. **Menu/Playback Control On/Off Button**
8. **Cursor Buttons**
9. **Programme Button**
10. **Slow-motion or Preset Memory Button**
11. **Fast Reverse or Preset Down Button**
12. **Fast Forward or Preset Up Button**
13. **Surround/Stereo (2-ch) Listening Mode Button**
14. **Speaker Level Mode Button**
15. **Direct Button**
16. **Angle Select Button**
17. **Return Button**
18. **Zoom Button**
19. **Mute Button**
20. On/Stand-by Button
21. **Language Select Button**
22. **Display Button**
23. **FM Stereo/Mono Select Button**
24. **Enter Button**
25. **Sleep Button**
26. Play or Pause Button
27. Stop Button
28. Chapter (track) Skip Up or Tuning Up Button
29. Chapter (track) Skip Down or Tuning Down Button
30. Volume Up and Down or Speaker Level Adjust Buttons
31. **Direct Number Buttons**
32. **Frame Advance Button**
33. **A - B Repeat Button**
34. **NTSC/PAL Select Button**
35. **Repeat Play Button**
36. **Audio Select Button**



Buttons with "☆" mark in the illustration or highlighted in bold on the list can be operated on the remote control only.

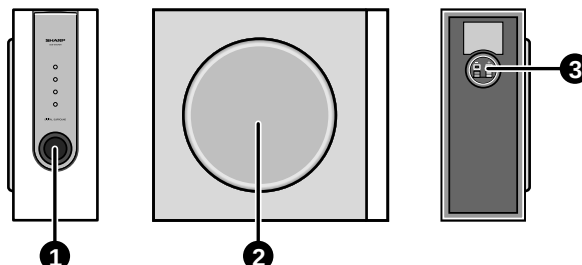
CP-CN400HF/CP-CN400HC/CP-CN400HR/CP-CN400EF/CP-CN400EC/CP-CN400ER/ CP-CN500HF/CP-CN500HC/CP-CN500HR/CP-CN500EF/CP-CN500EC/CP-CN500ER

1. Speaker
2. Bass Reflex Duct
3. Speaker Terminals
4. Mounting Holes for Stand or Bracket



CP-CN400HSW/CP-CN400ESW/CP-CN500HSW/CP-CN500ESW

1. Bass Reflex Duct
2. Woofer
3. Speaker Terminals



DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take dvd disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw (A1) x9 2. Pull to the arrow direction.	7-1
2	Rear Panel/Scart PWB/Fan Motor	1. Screw (B1) x11 2. Socket (B2) x3	7-2
3	Main PWB	1. Screw (C1) x6 2. Socket (C2) x6 3. Flat Cable (C3) x2	7-3 7-4
4	Power PWB	1. Screw (D1) x4	7-3
5	Front Panel	1. Screw (E1) x8 2. Hook (E2) x2	8-1
6	Display/Switch PWB	1. Screw (F1) x9	8-2
7	Headphones PWB	1. Screw (G1) x1 2. Bracket (G2) x1	8-2

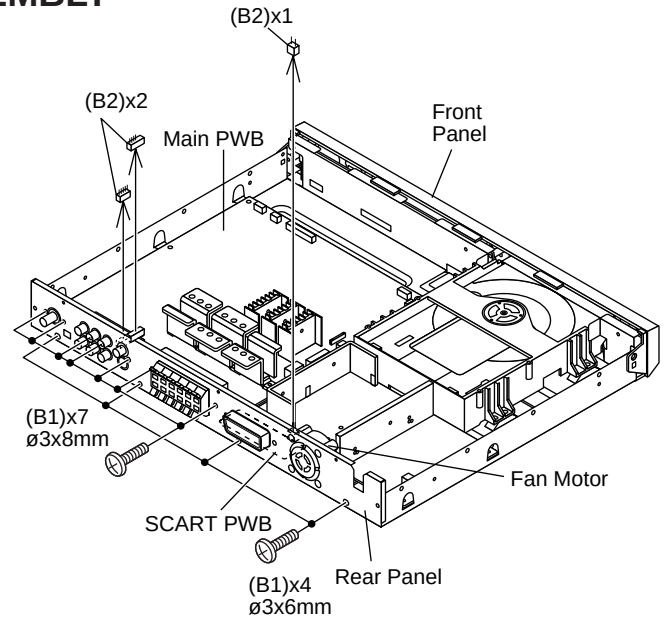


Figure 7-2

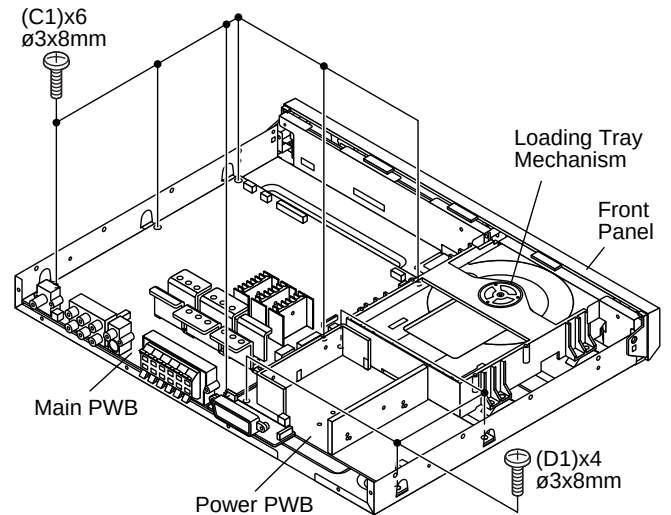


Figure 7-3

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

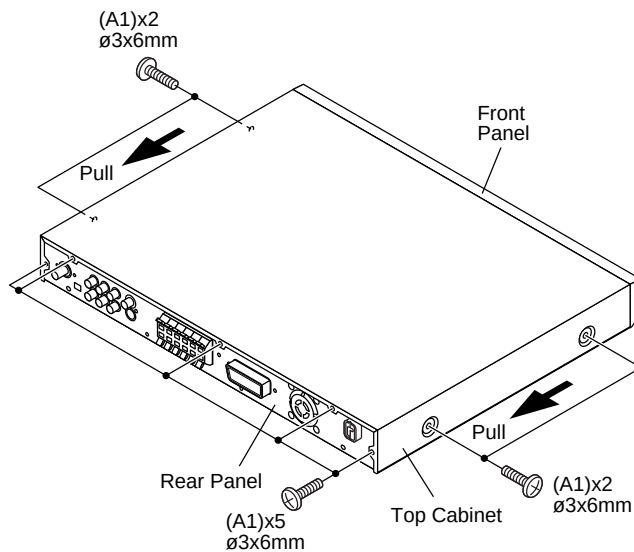


Figure 7-1

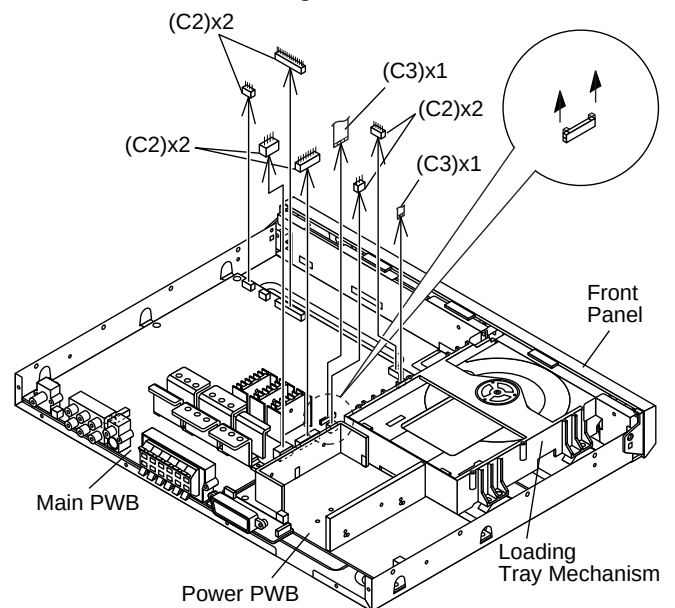


Figure 7-4

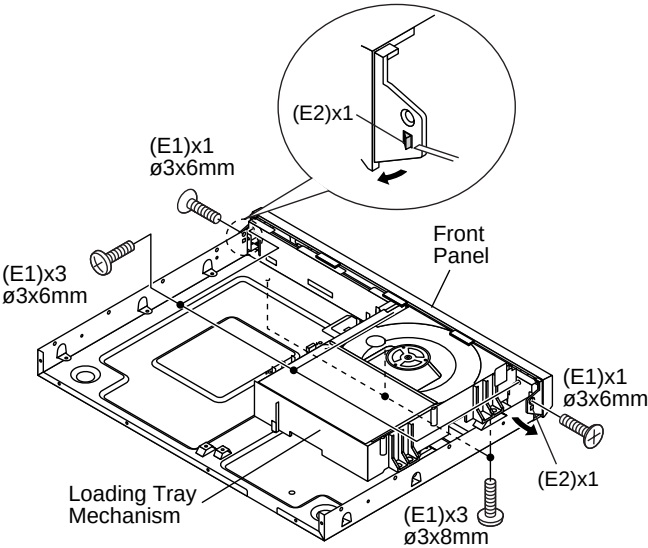


Figure 8-1

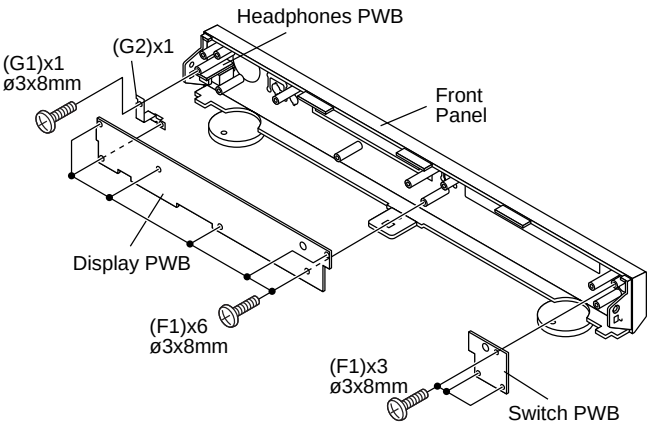


Figure 8-2

CP-CN400HF/CP-CN400HC/CP-CN400HR/CP-CN400EF/ CP-CN400EC/CP-CN400ER/CP-CN500HF/CP-CN500HC/ CP-CN500HR/CP-CN500EF/CP-CN500EC/CP-CN500ER			
STEP	REMOVAL	PROCEDURE	FIGURE
1	Front panel	1. Net Frame Ass'y (A1) x1 2. Screw (A2) x4	8-3
2	Speaker	1. Screw (B1) x4	8-4

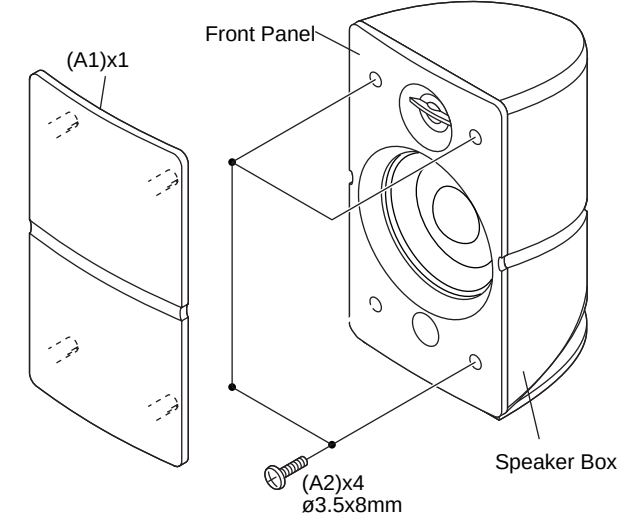


Figure 8-3

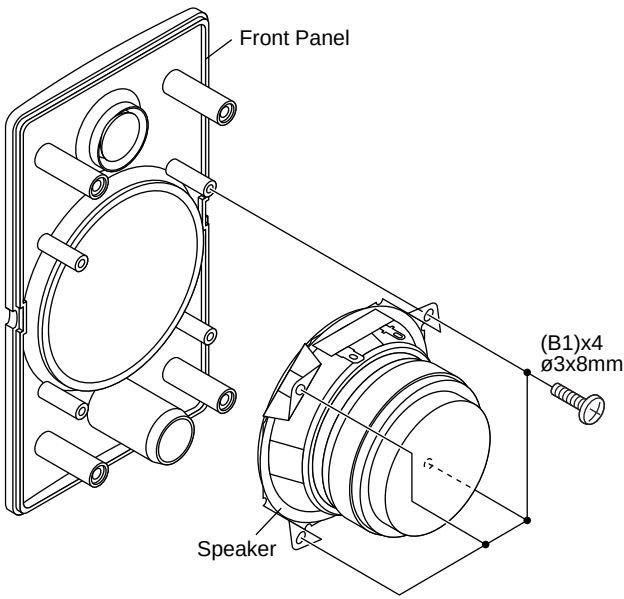


Figure 8-4

CP-CN400HSW/CP-CN400ESW/ CP-CN500HSW/CP-CN500ESW			
STEP	REMOVAL	PROCEDURE	FIGURE
1	Speaker	1. Net Frame Ass'y (A1) x1 2. Screw (A2) x4	8-5

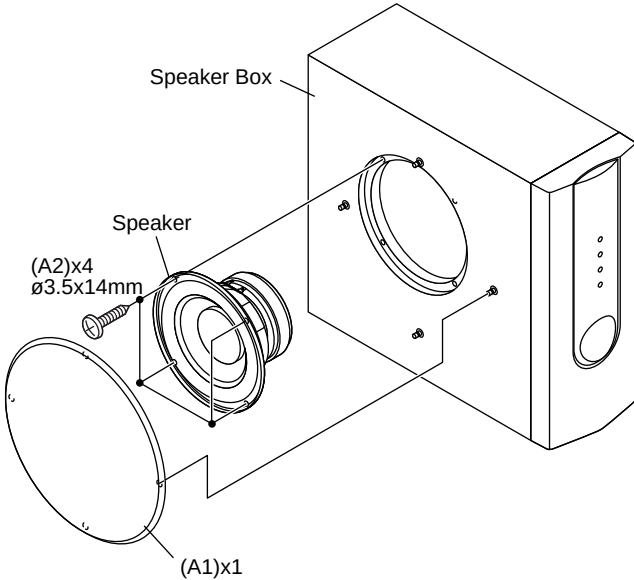


Figure 8-5

ADJUSTMENT

TUNER SECTION

fL: Low-range frequency

fH: High-range frequency

• AM IF/RF

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
AM IF	450 kHz	1,620 kHz	T008	*1
AM Band Coverage	—	522 kHz	(fL): T003 (fH): TC002	*2
AM Tracking	990 kHz	990 kHz	(fL): T002 (fH): TC001	*1

*1. Input: Antenna

*2. Input: Antenna Output: IC001 Pin17(L) or Pin16(R)

• FM IF

Notes:

- Description of the "FM IF Adjustment" is not carried on this Manual. It is because the IF coil in the FM front end section has been best adjusted in the factory so that its further adjustment is not needed at the field. When replacing the FM front end assembly, no adjustment is needed either.
- The parts in the FM front end section are prepared in a complete unit, so you can't obtain each part individually.

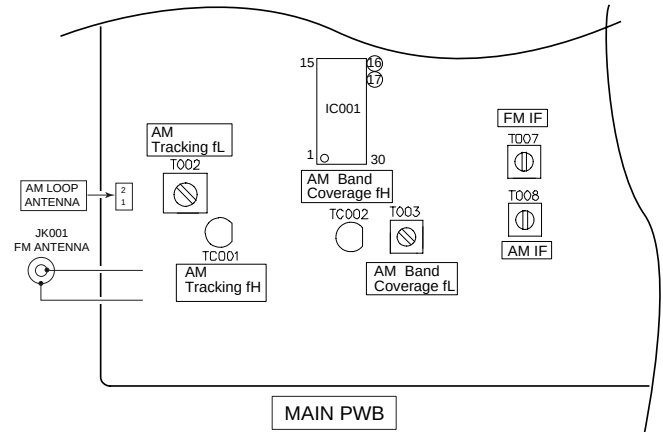


Figure 9 TUNER ADJUSTMENT POINTS

• FM Detection

Signal generator: 10.7 MHz, FM sweep generator

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
FM IF	10.7 MHz	98.0 MHz	T007 (Tuner core of T007 fully counter-clockwise)	Input: Pin 1 of EF001

SW EXTRA FUNCTION

- How to show Version number.

- Door Open,
- Press and hold R/C "Volume up" Button;
- Press R/C "Zoom" button continue,
- OSD show version number,

VER xxxx x PAL xx x xx

Month and day version TV TYPE Tuner area region code LANGUAGE

The first xxxx stand for month and day, the second x stand for version sequence, the third x stand for TV system, the forth xx for tuner area, the fifth x stand for region code. The sixth code xx stand for language.

- How to adjust TUNER AREA.

- Door Open
- Press and hold R/C "Volume up" button;
- Press R/C "Subtitle" button continue;
- OSD show "Tuner Area: xx"
Press Down button to select
Press OK button to confirm"
- Then use R/C ▼ to select tuner area you want (EUR → USA cyclically), then press "OK" to confirm,
- If OK button is pressed in five seconds, OSD will show "Tuner Area Change"; If you didn't press it in five seconds, the system will remain original status.

- How to select region code;

- DVD door open
- Press and hold R/C "Volume up" button;
- Press R/C "Language" button;
- TV shows region code
- Cyclically press Up/Down button to select region code 0 → 1 → 2 → 3 → 4 → 5 → 6 → 0
- Press "Enter" button to save the region code. If no press "Enter" button in five seconds, then the region code remain original status.

- How to select OSD Language Sequence,

- Door close and no disc,
- Press and hold R/C "Volume up" button;
- Then Press R/C "Subtitle" button;
- OSD show last setting "OSD language", (English → France → German → Italian → Spanish).
- Then use ▼ button to select language that you want and its sequence.
- For example: default language is English, you select English and press Enter button, then its sequence is change to (English → France → German → Italian → Spanish)

SOFTWARE UPGRADING & SPECIAL KEY CONTROL

1. Software Upgrading

- a) Burn the software "bank30.rom" in CD-R/CD-RW (lower burning speed is recommended).
- b) Load CD-R/CD-RW in DVD receiver.
- c) After finished loading, VFD will show "Read" and OSD will display "Reading".
- d) After reading, system will start upgrading software, VFD will show "Update" and OSD will display "Erase" then "Writing".
 - * If fail to upgrade, OSD will display "Checksum error". Turn off/on power and try upgrading again. If still fail, re-burn CD-R/CD-RW.
- e) After finished "Writing", VFD and OSD will display "Done" then tray will open automatically.
 - * If the tray did not open automatically, just proceed to next step (f).
- f) Unplug and plug in AC power cord or turn off and on main power supply.
- g) Turn on power and confirm the software version.
- h) Defaults the reset => Power on the set, press "set up" button at remote control, SETUP menu will display at TV screen, go to enter PREFERENCES. At Preferences Page, go to Defaults-Reset and enter the Reset.

Caution : DO NOT disturb or cut off power supply during software upgrading, it will cause the data lost. Hence the flash IC have to be burned software again.

2. Special Key Control

- a) Software version
 - i) On Tray open condition.
 - ii) Press and hold remote controller key "Volume up" for 2 seconds.
 - iii) Release "Volume up"key then press "Zoom" key.
 - iv) OSD will display " VER xxxx x yy z ".
 - Where xxxx xis Version number
 - yy is Tuner area
 - z is Region code
- b) Tuner Area
 - i) On Tray open condition.
 - ii) Press and hold remote controller key "Volume up" for 2 seconds.
 - iii) Release "Volume up"key then press "Subtitle" key.
 - iv) OSD will display "Tuner area".
 - v) Follow OSD instruction to change the tuner area
 - vi) After tuner area was changed, the preset station will be initialized at default station.
- c) Region Code
 - i) On Tray open condition.
 - ii) Press and hold remote controller key "Volume up" for 2 seconds.
 - iii) Release "Volume up"key then press "Language" key.
 - iv) OSD will display "Region Code".
 - v) Follow OSD instruction to change the region code.
- d) OSD Language
 - i) On No disc condition.
 - ii) Press and hold remote controller key "Volume up" for 2 seconds.
 - iii) Release "Volume up"key then press "Subtitle" key.
 - iv) OSD will display "OSD Language".
 - v) Follow OSD instruction to change the OSD language.

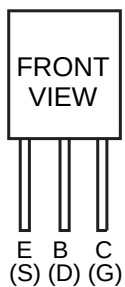
NOTES ON SCHEMATIC DIAGRAM

- Resistor:
To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.
- Capacitor:
To indicate the unit of capacitor, a symbol P is used: this symbol P means pico-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.
(CH), (TH), (RH), (UJ): Temperature compensation
(ML): Mylar type
(P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
 1. In the tuner section,
indicates AM
indicates FM stereo
 2. In the power section, a tape is being played back.

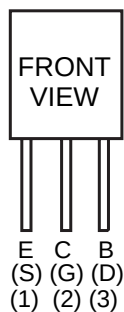
- Parts marked with "△" (□ = = = □) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
TA301	ON/STAND-BY	ON—OFF
TA302	STOP	ON—OFF
TA303	FAST FORWARD	ON—OFF
TA304	FAST REVERSE	ON—OFF
TA305	VOLUME DOWN	ON—OFF
TA306	MODE	ON—OFF
TA307	FUNCTION	ON—OFF
TA308	VOLUME UP	ON—OFF
TA309	PLAY	ON—OFF
TA310	OPEN/CLOSE	ON—OFF

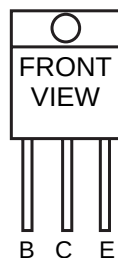
TYPES OF TRANSISTOR AND LED



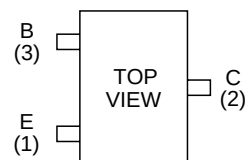
2SK192 A
PN2222 A



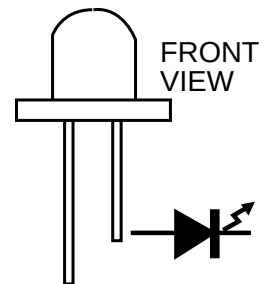
2SC2001 L



TIP122



DDTC114 ECA
CM5783 GR
2SC1009 A
2SC1623
CM5051
2SA812



KER0002

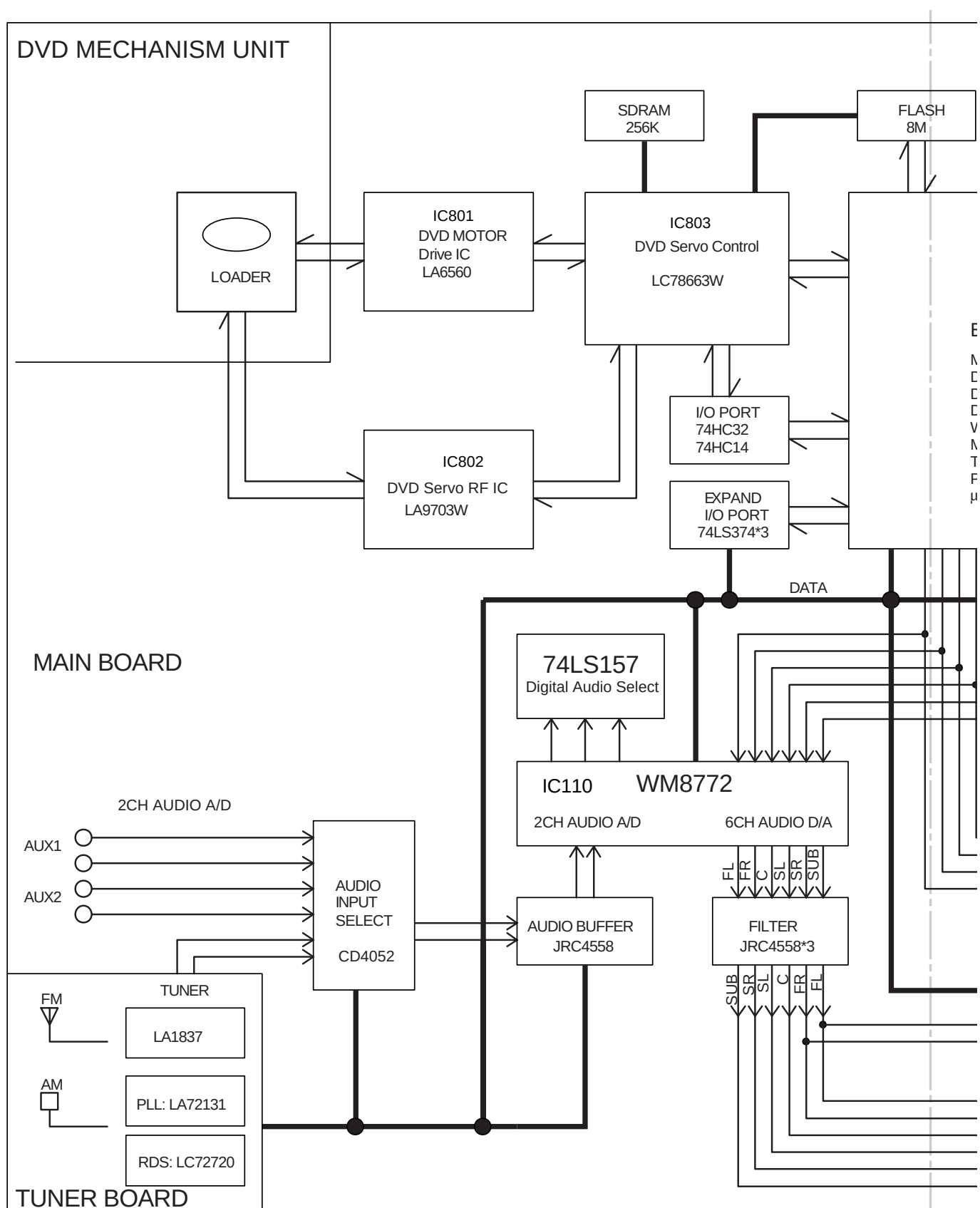


Figure 12 BLOCK DIAGRAM (1/2)

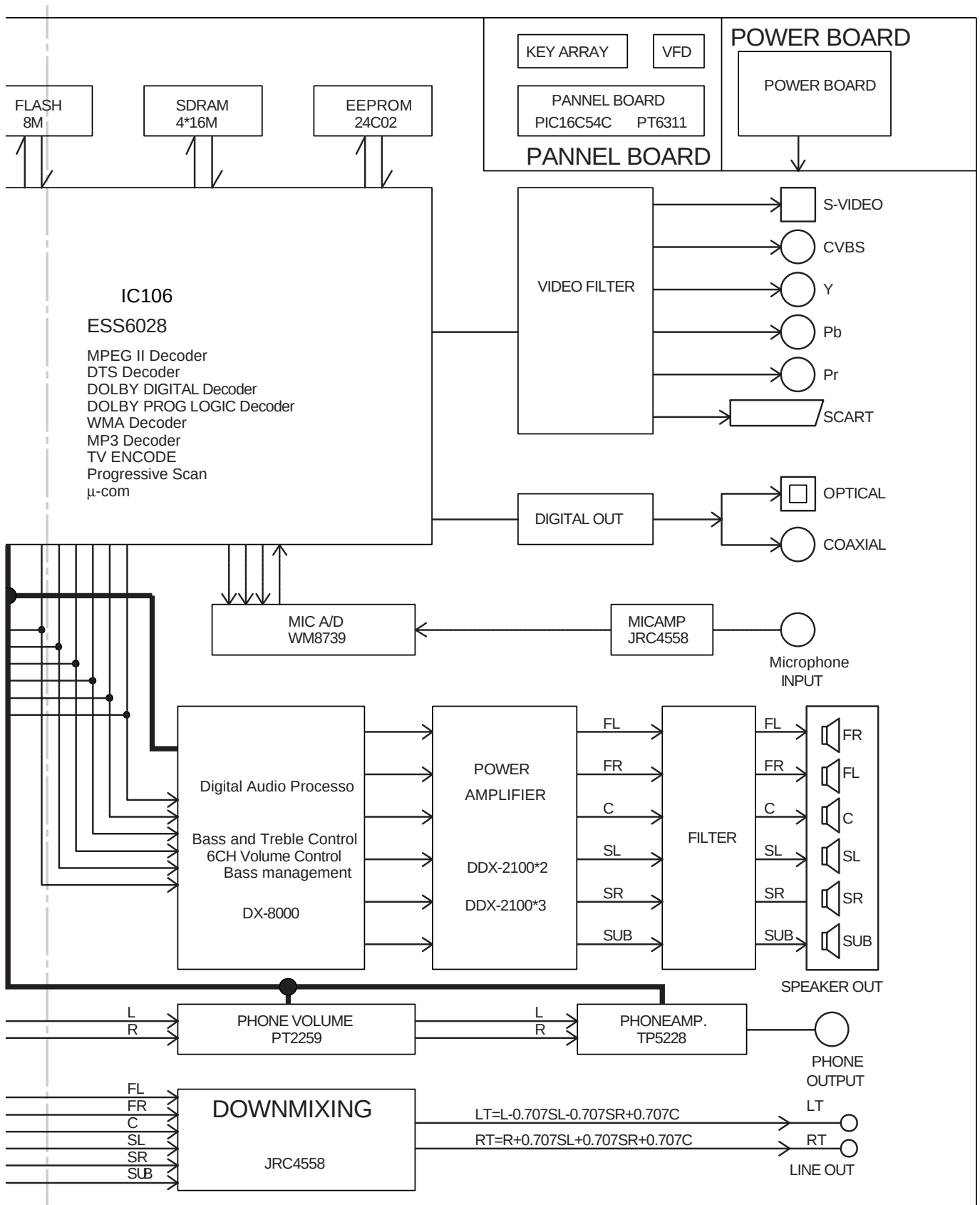


Figure 13 BLOCK DIAGRAM (2/2)

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

SITUATION :

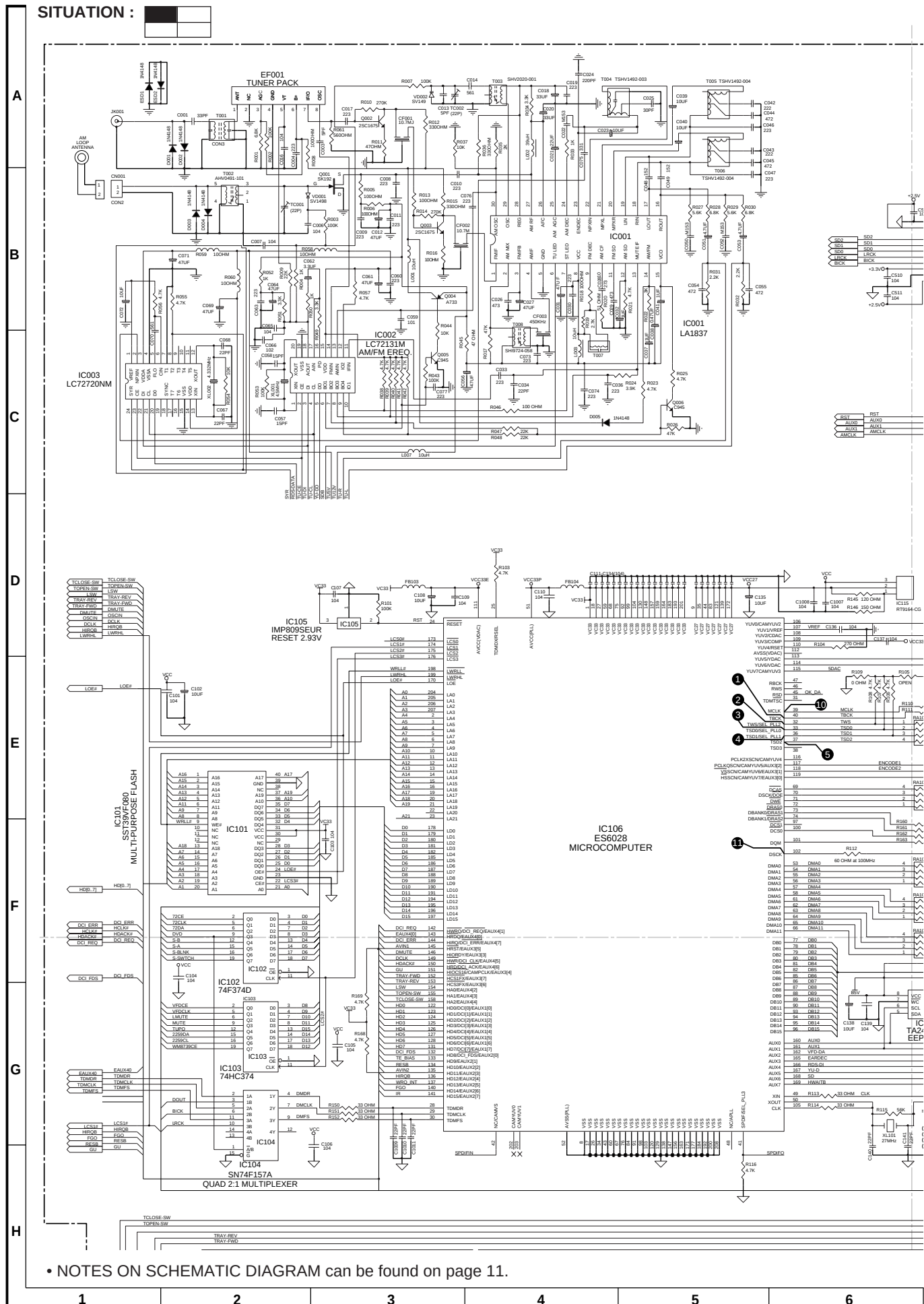
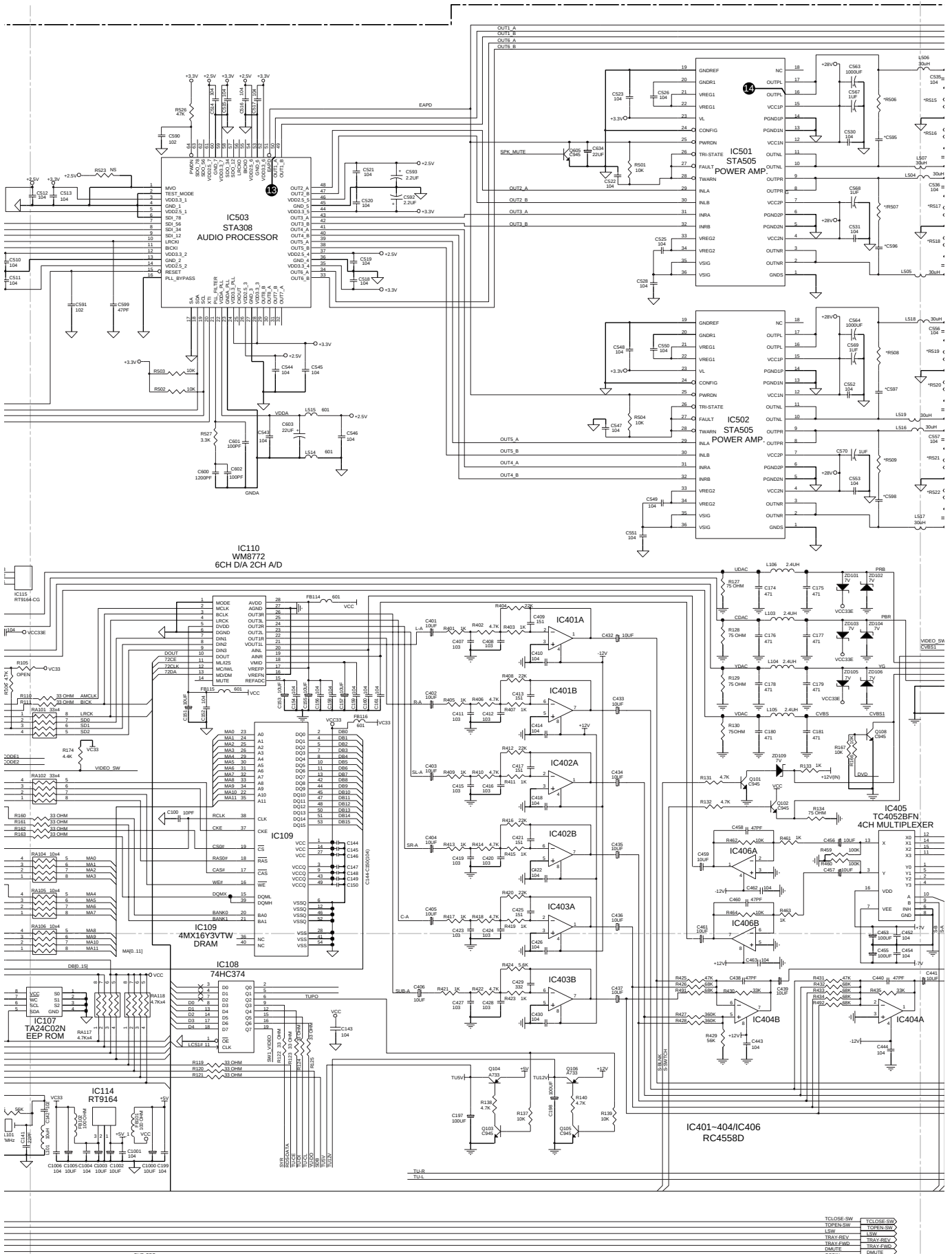


Figure 14 SCHEMATIC DIAGRAM (1/12)

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE



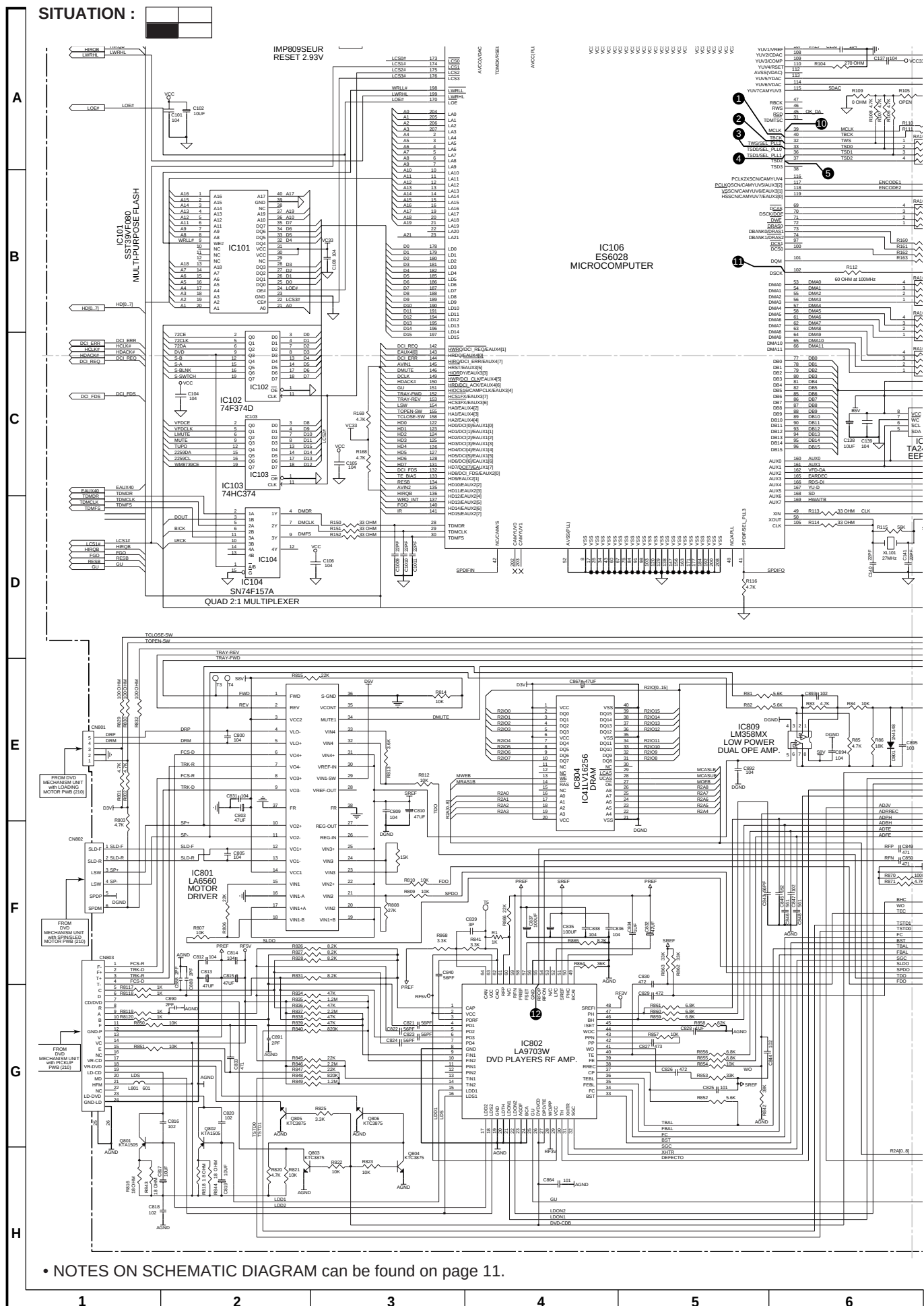
• The numbers 1 to 5, 10, 11, 13, 14 are waveform numbers shown in page 36, 37.

7	8	9	10	11	12
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Figure 15 SCHEMATIC DIAGRAM (2/12)

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

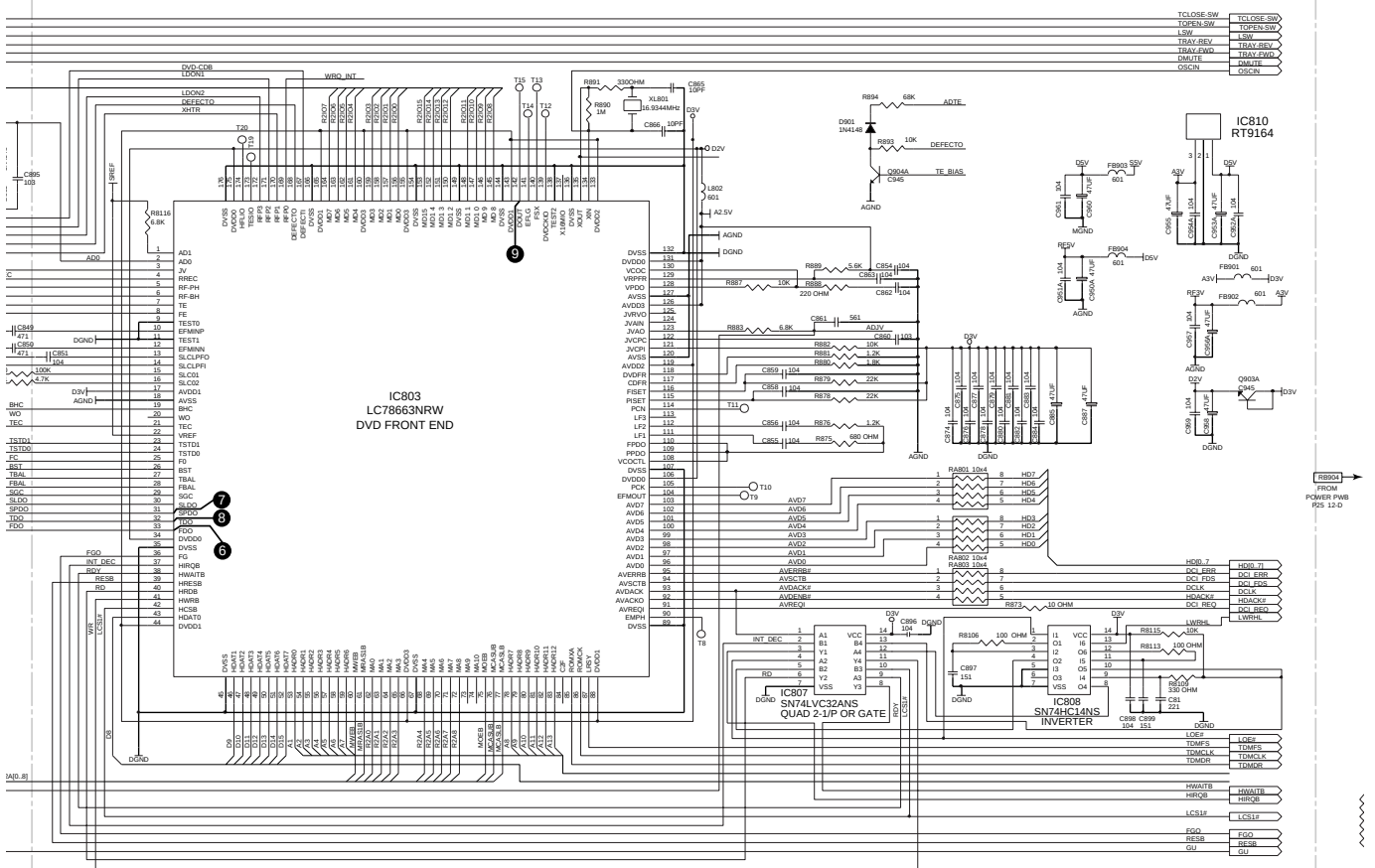
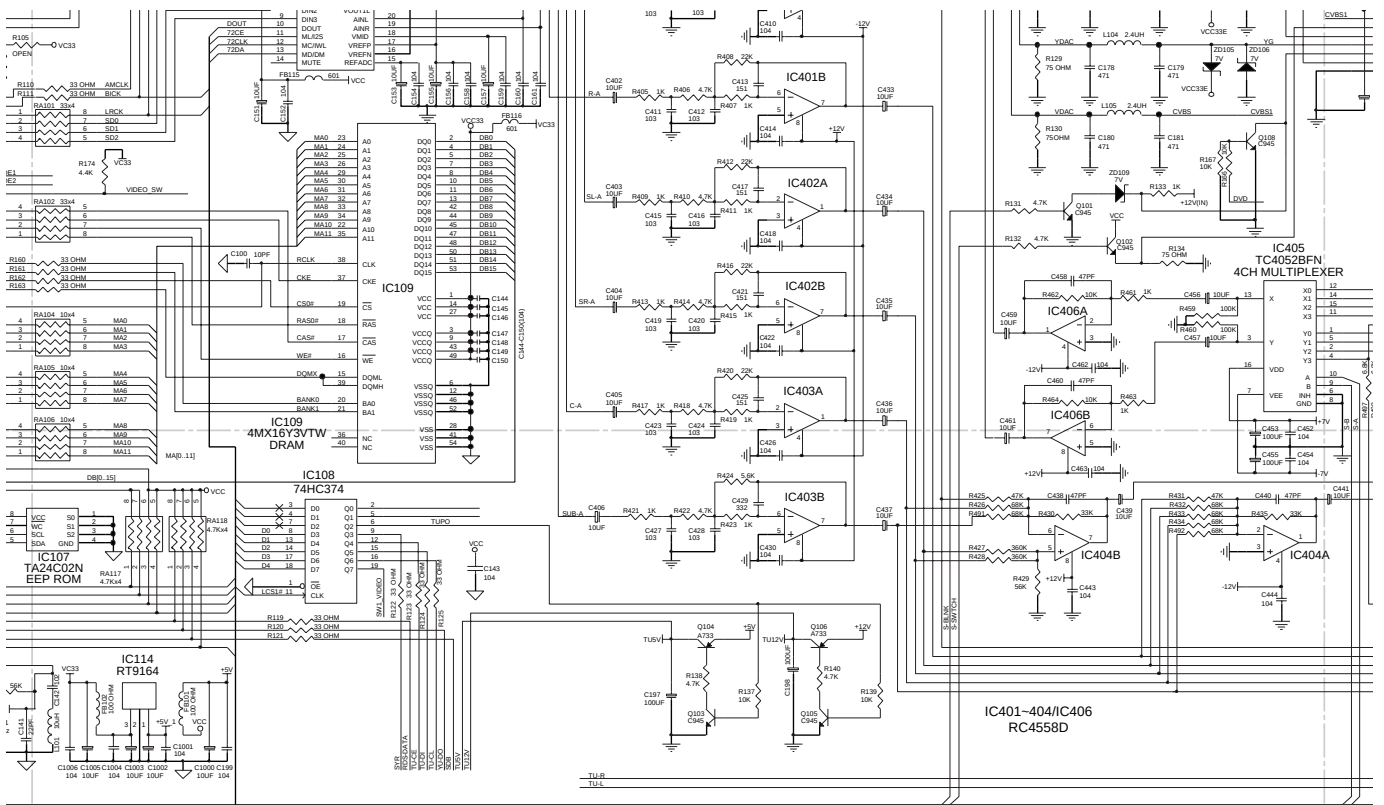
SITUATION :



• NOTES ON SCHEMATIC DIAGRAM can be found on page 11.

Figure 16 SCHEMATIC DIAGRAM (3/12)

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE



• The numbers 1 to 12 are waveform numbers shown in page 36, 37.

7	8	9	10	11	12
---	---	---	----	----	----

Figure 17 SCHEMATIC DIAGRAM (4/12)

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

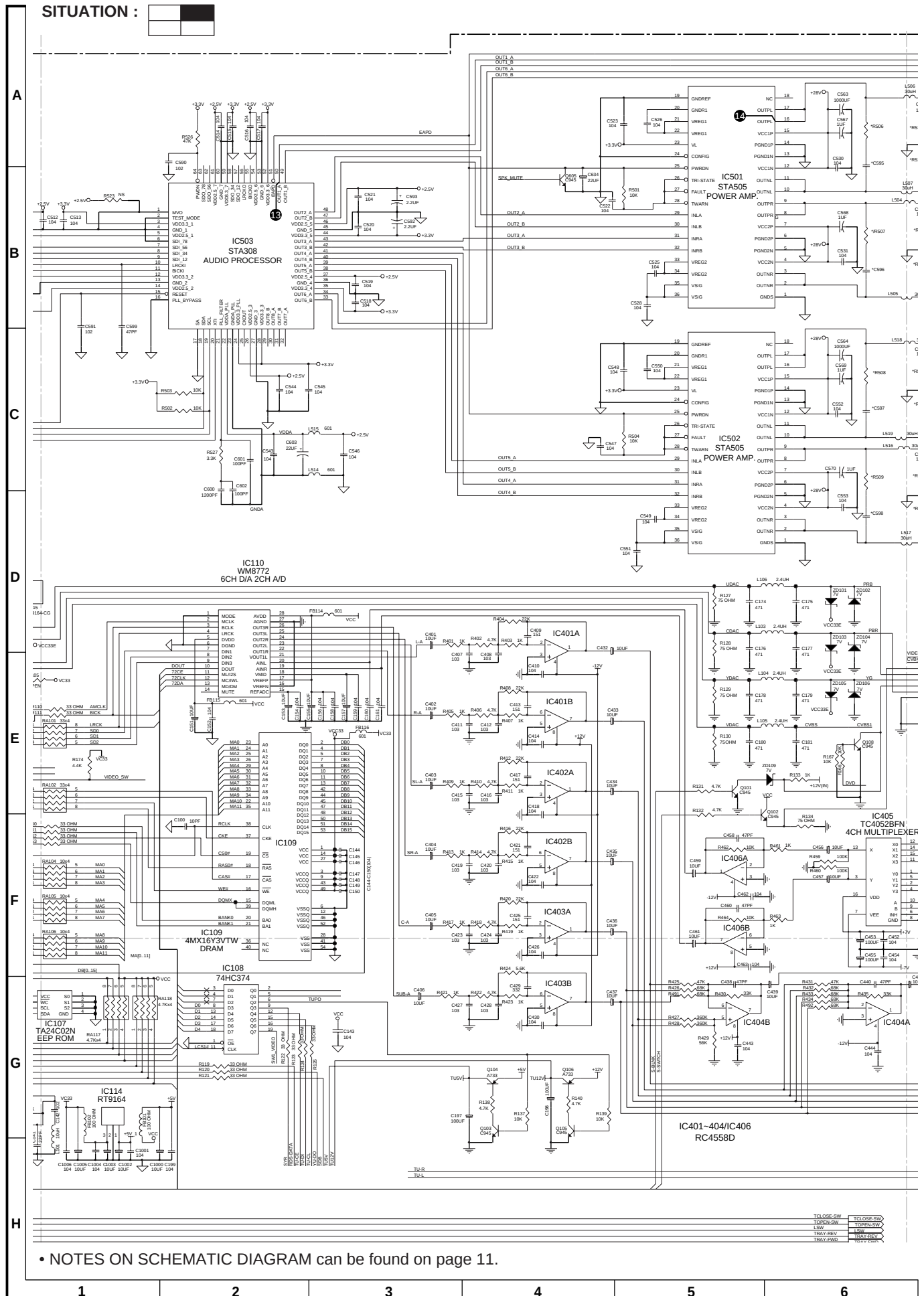
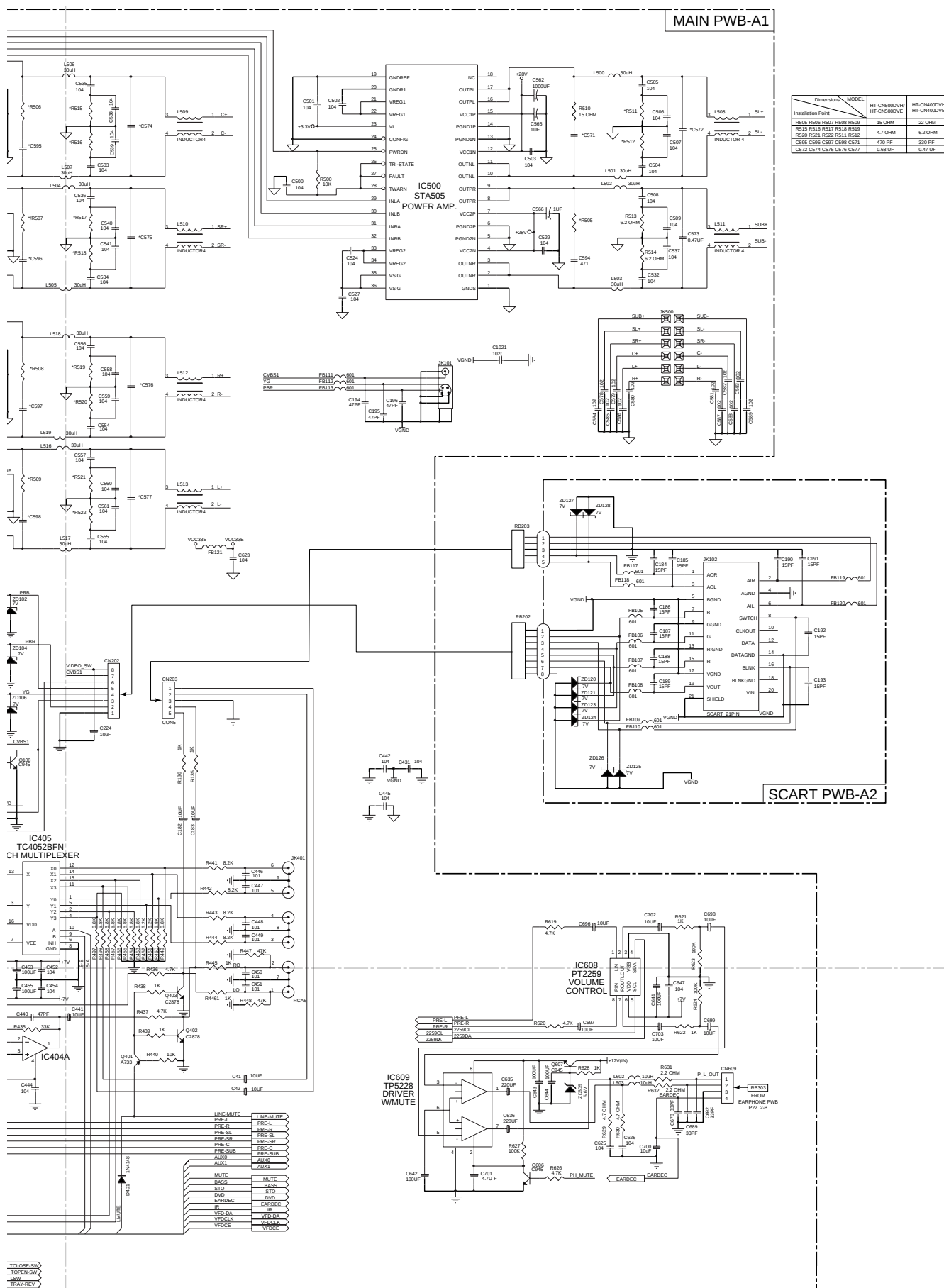


Figure 18 SCHEMATIC DIAGRAM (5/12)

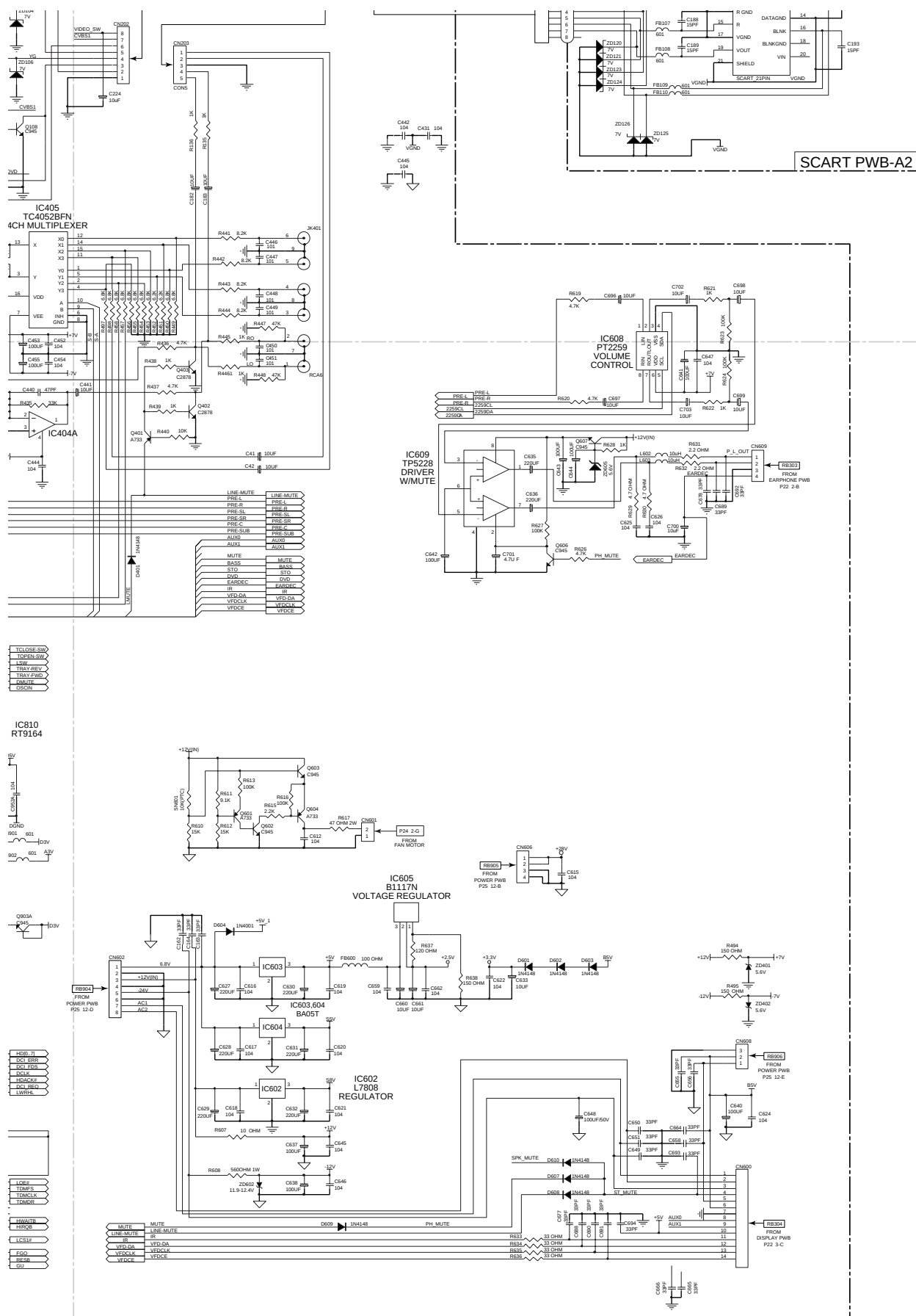
HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE



- The numbers 13 to 14 are waveform numbers shown in page 37.

• NOTES ON SCHEMATIC DIAGRAM can be found on page 11.

Figure 20 SCHEMATIC DIAGRAM (7/12)



- The numbers 6 to 9 are waveform numbers shown in page 36.

7	8	9	10	11	12
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Figure 21 SCHEMATIC DIAGRAM (8/12)

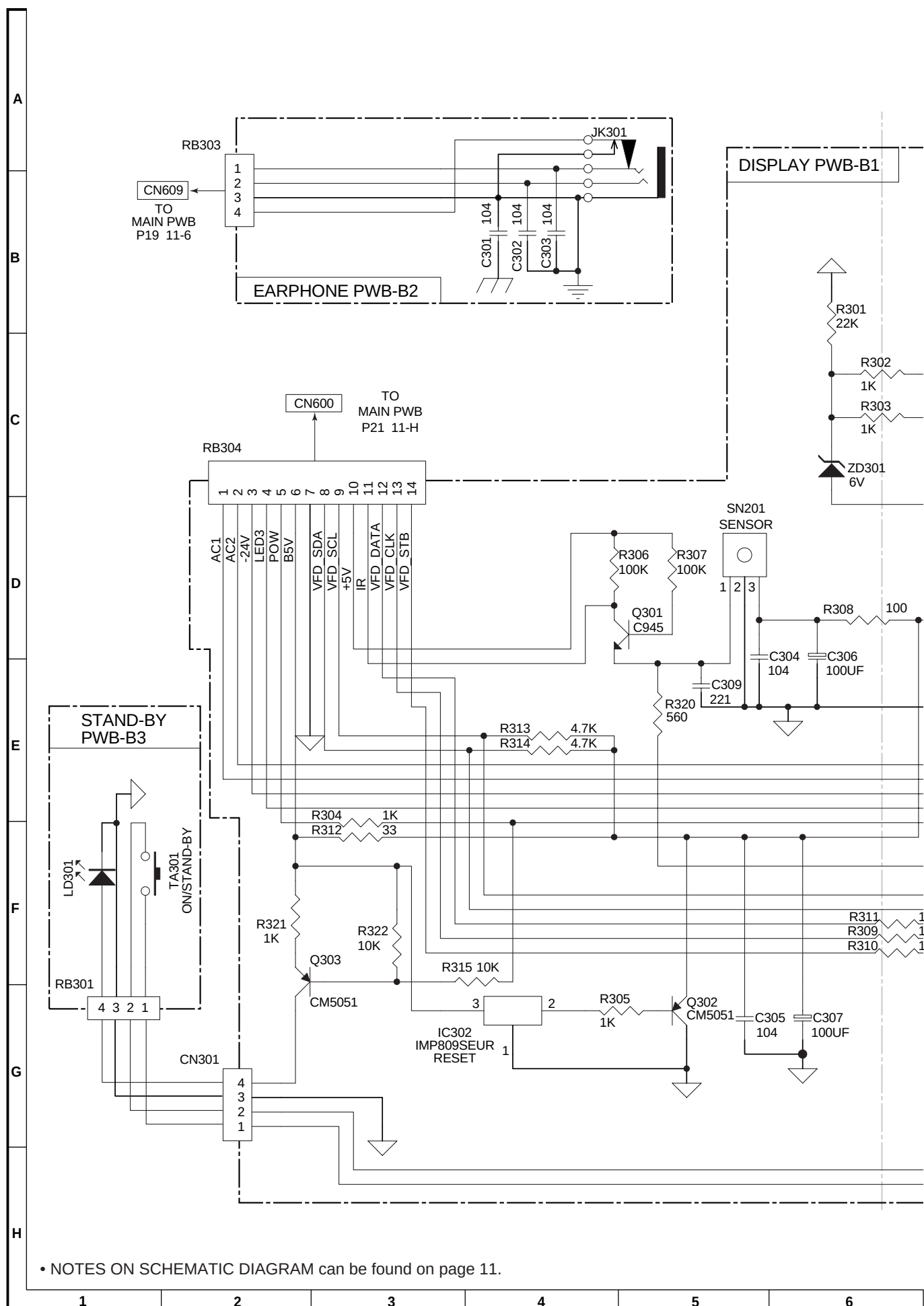


Figure 22 SCHEMATIC DIAGRAM (9/12)

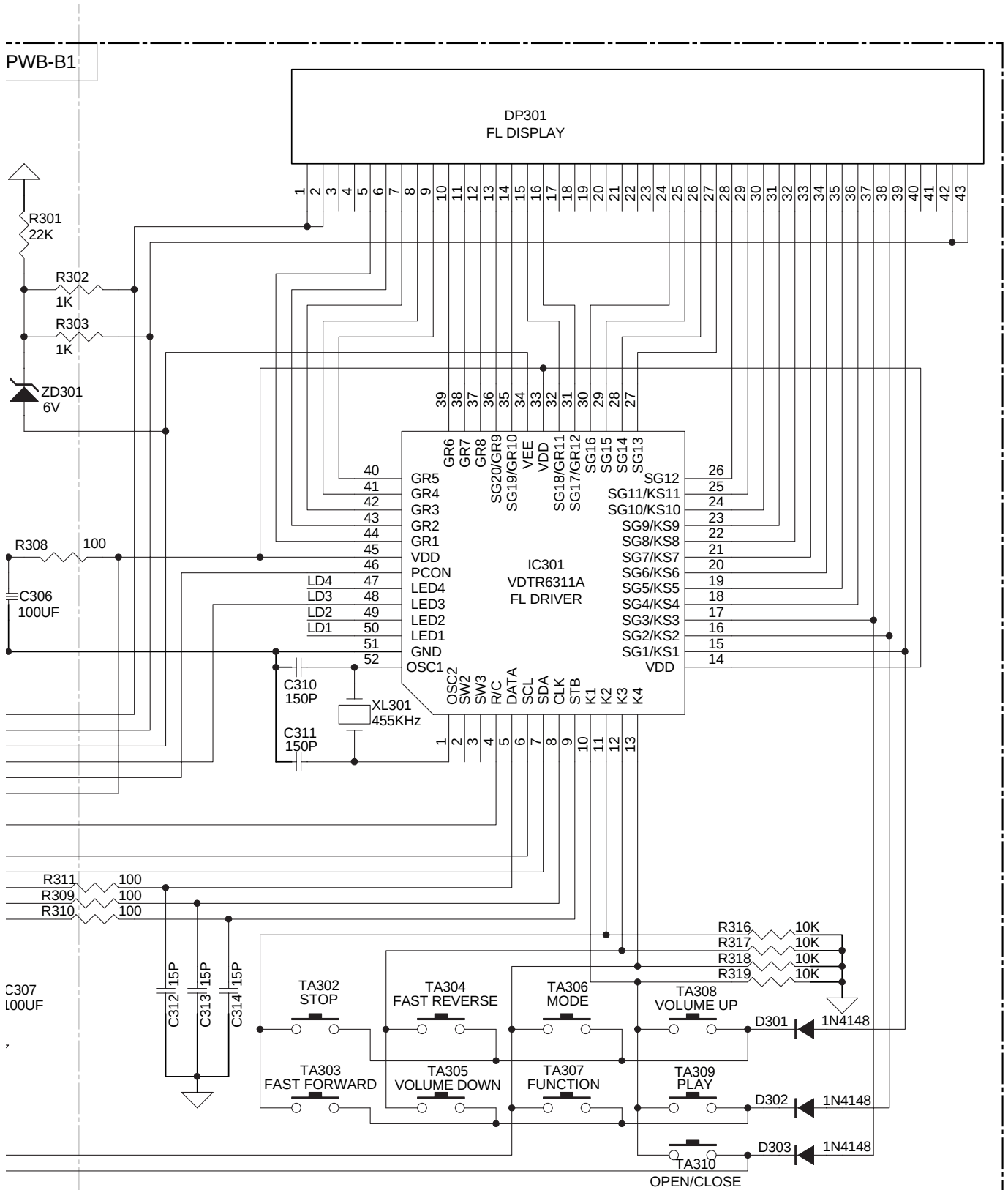


Figure 23 SCHEMATIC DIAGRAM (10/12)

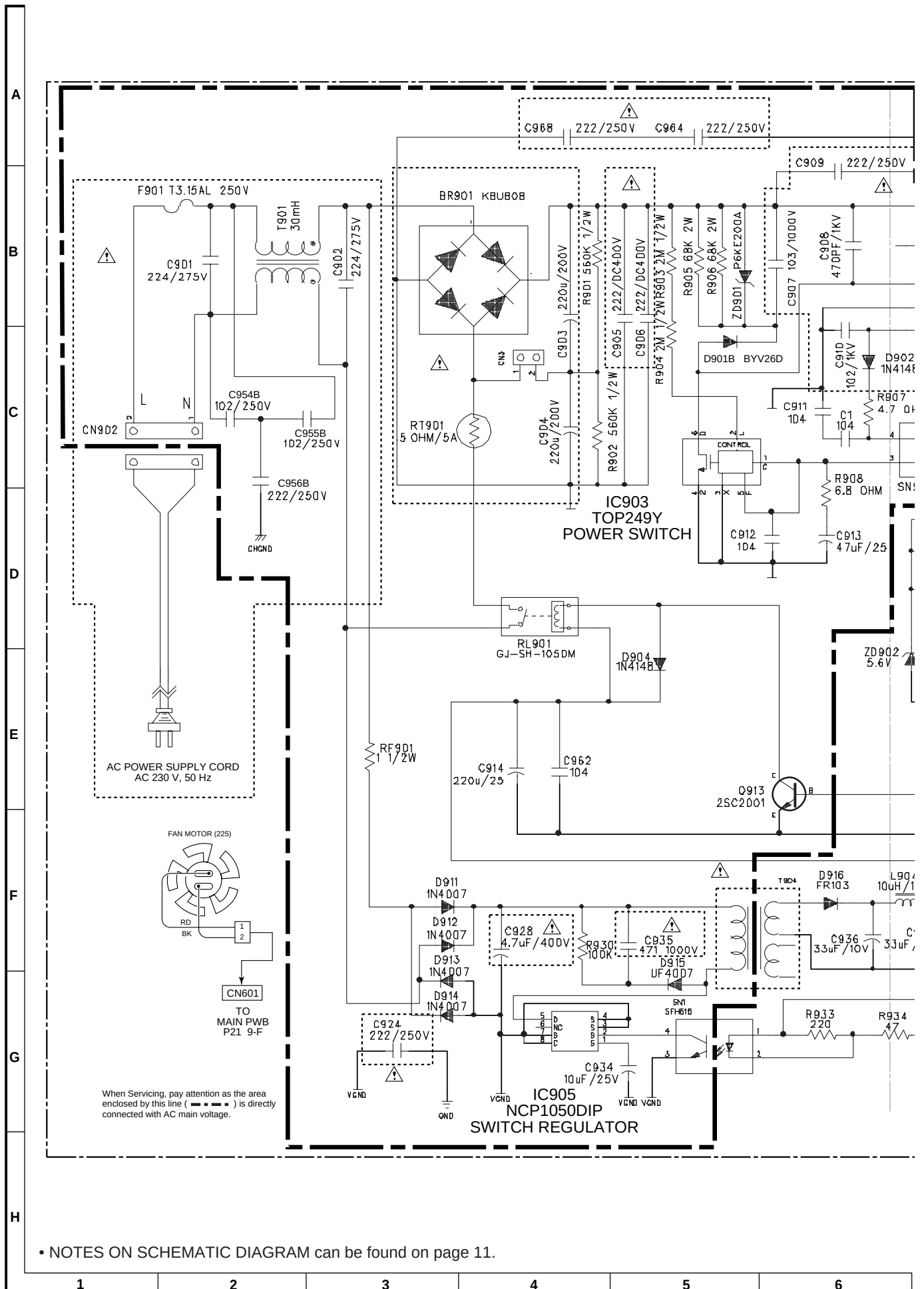
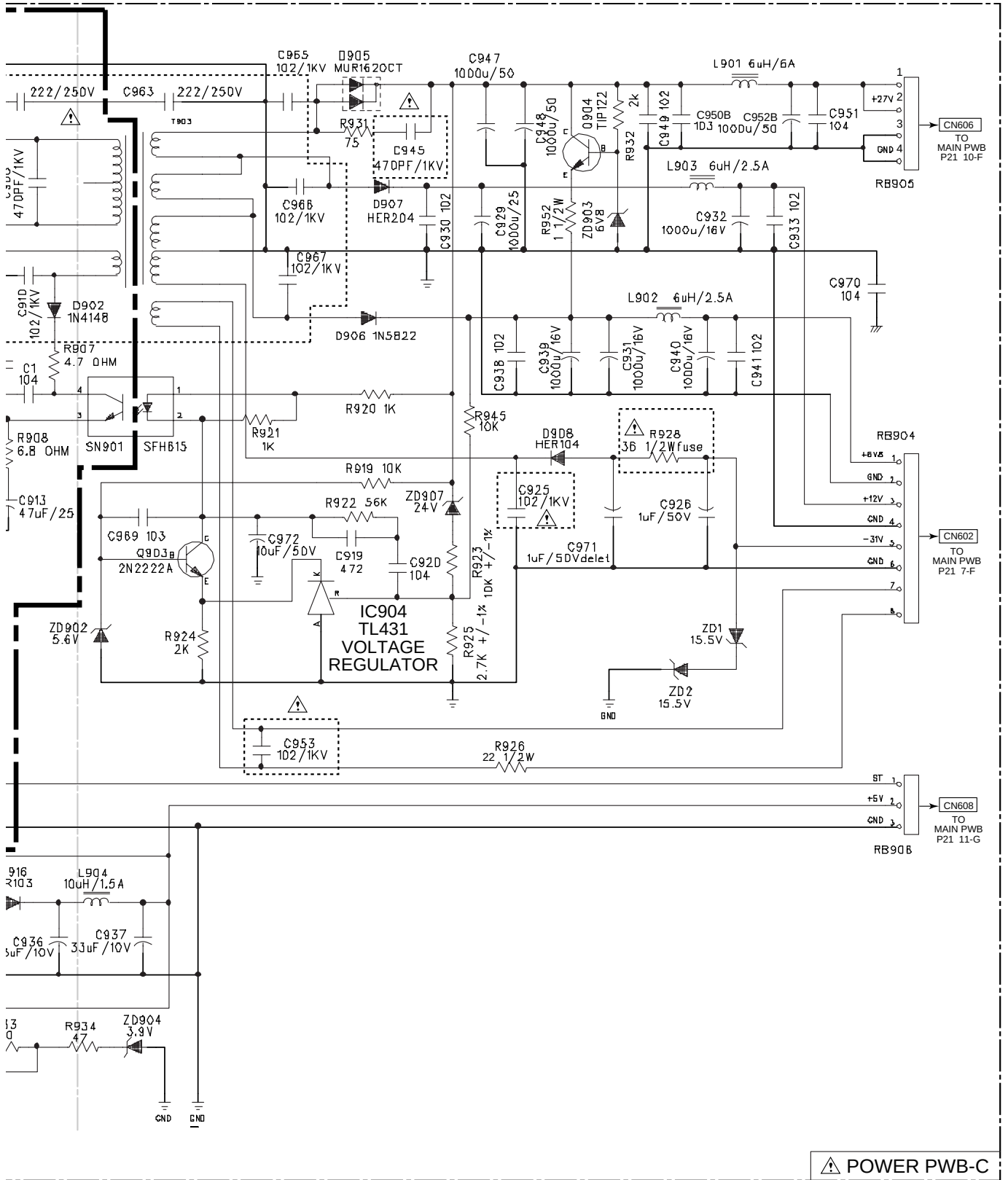


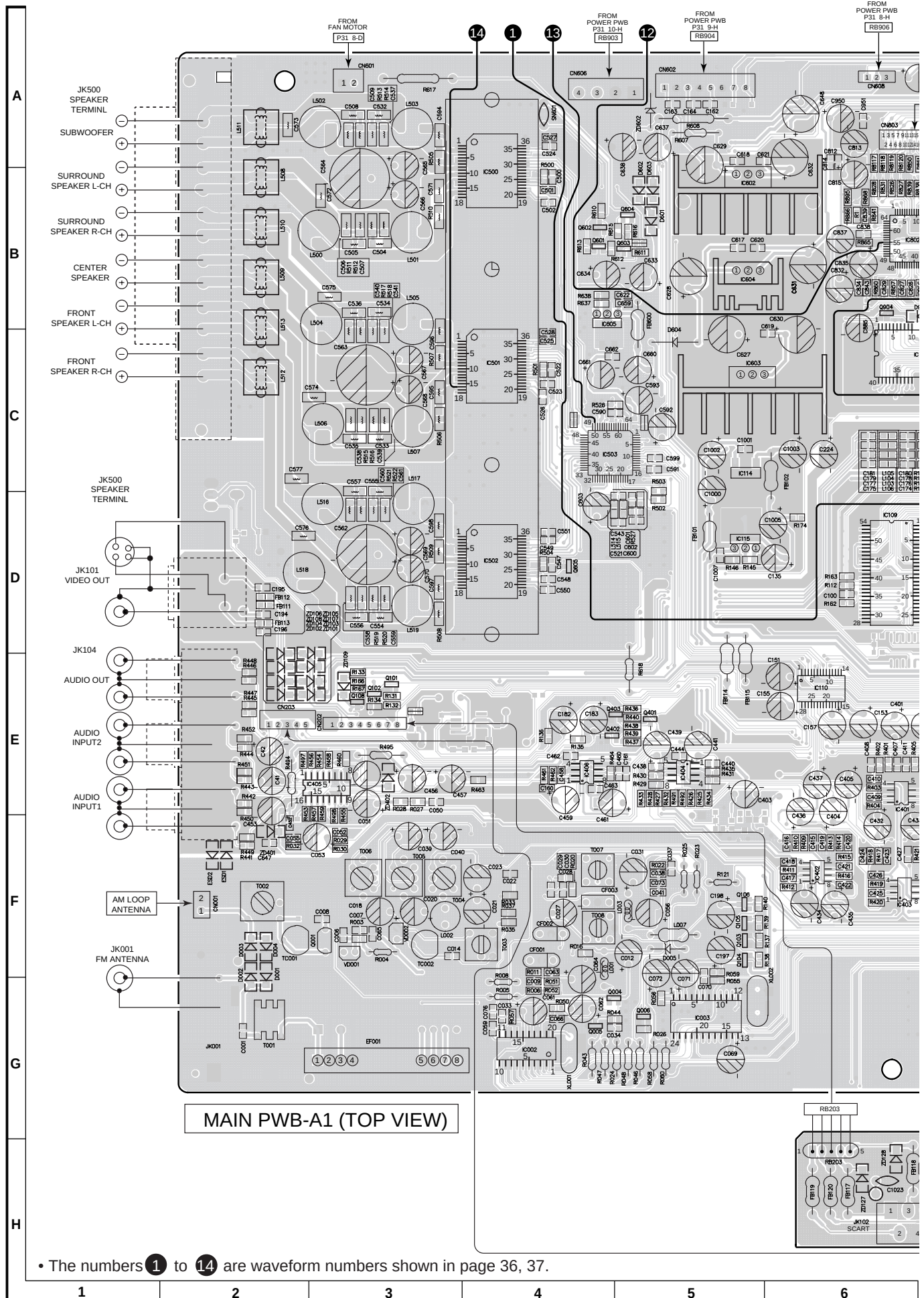
Figure 24 SCHEMATIC DIAGRAM (11/12)



7	8	9	10	11	12
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Figure 25 SCHEMATIC DIAGRAM (12/12)

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE



MAIN PWB-A1 (TOP VIEW)

• The numbers 1 to 14 are waveform numbers shown in page 36, 37.

Figure 26 WIRING SIDE OF P.W.BOARD (1/6)

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

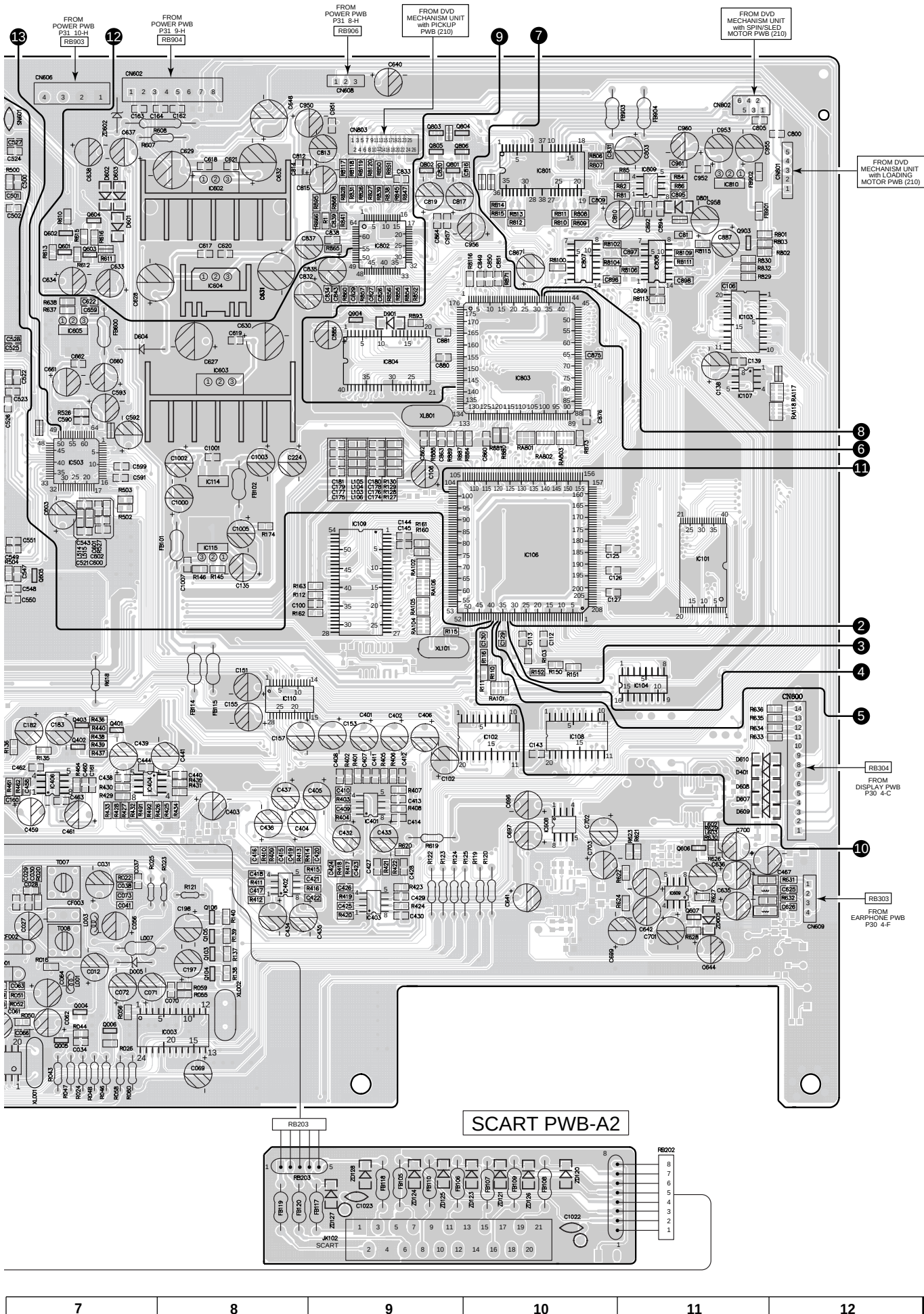
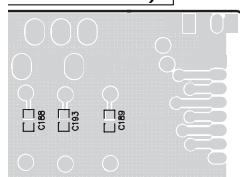


Figure 27 WIRING SIDE OF P.W.BOARD (2/6)





- 29 -

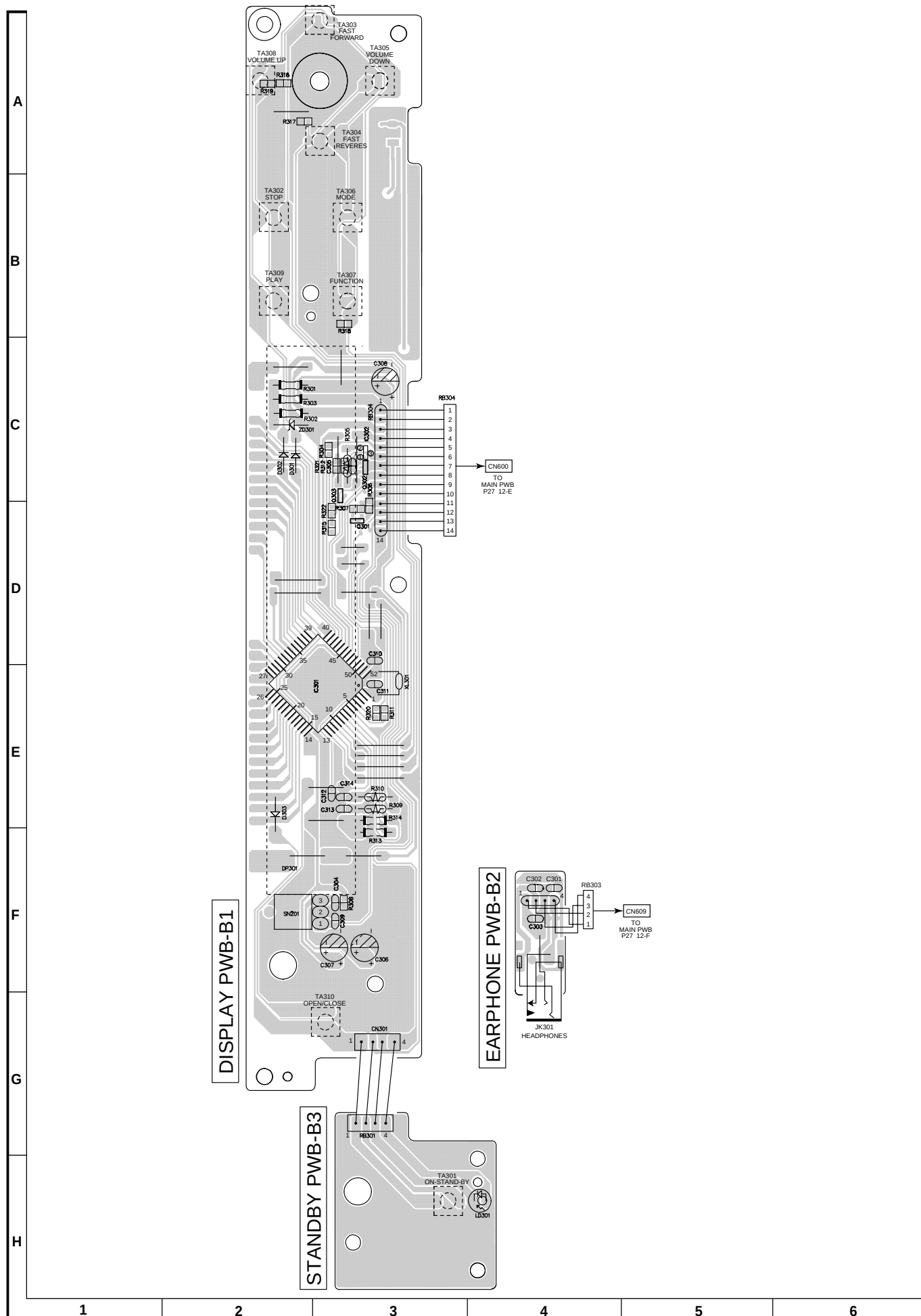


Figure 30 WIRING SIDE OF P.W.BOARD (5/6)

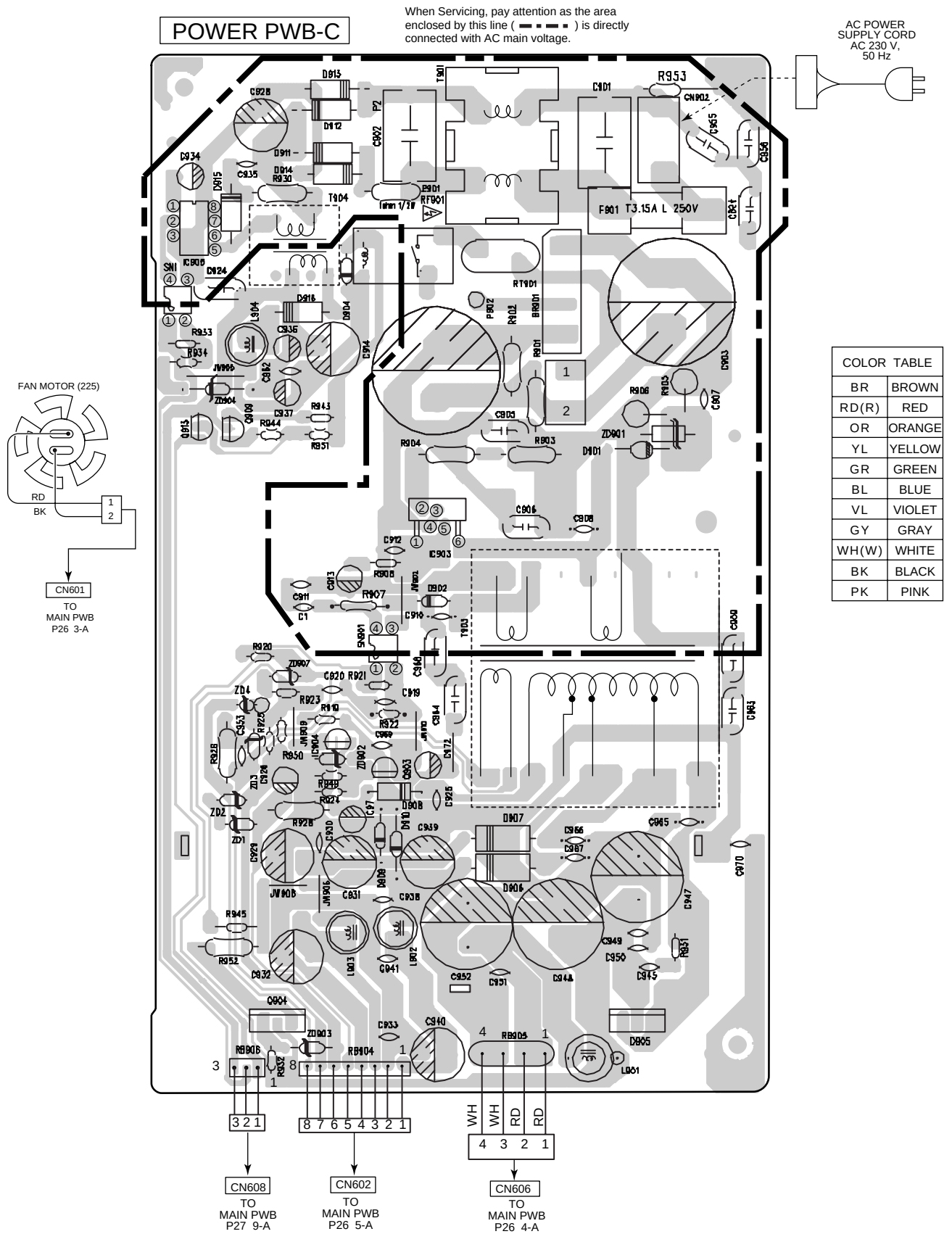


Figure 31 WIRING SIDE OF P.W.BOARD (6/6)

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

VOLTAGE

IC810 (RT9164)

PINS NUMBER	1	2	3
VOLTAGE (DVD PLAY)	5V	0V	3.3V

IC103 (74LS374)

PINS NUMBER	10	20
VOLTAGE (DVD PLAY)	0V	5V

IC102 (74LS374)

PINS NUMBER	10	20
VOLTAGE (DVD PLAY)	0V	5V

IC108 (74LS374)

PINS NUMBER	10	20
VOLTAGE (DVD PLAY)	0V	5V

IC809 (LM358)

PINS NUMBER	1	2	3	4	5	6	7	8
VOLTAGE (DVD PLAY)	1.1V	2.3V	0V	0V	1.6V	1.6V	1.6V	7.9V

IC107 (24C02)

PINS NUMBER	1	2	3	4	5	6	7	8
VOLTAGE (DVD PLAY)	0V	0V	0V	0V	4.2V	4.2V	0V	5V

IC801 (LA6560)

PINS NUMBER	1	2	3	4	5	6	7	8
VOLTAGE (DVD PLAY)	0V	0V	7.9V	1.3V	1.3V	1.6V	3.6V	3.5V
PINS NUMBER	9	10	11	12	13	14	15	16
VOLTAGE (DVD PLAY)	3.6V	4.6V	2.5V	3.6V	3.6V	7.9V	1.1V	0V
PINS NUMBER	17	18	19	20	21	22	23	24
VOLTAGE (DVD PLAY)	1.6V	1.6V	1.6V	1.8V	1.6V	1.6V	1.6V	1.6V
PINS NUMBER	25	26	27	28	29	30	31	32
VOLTAGE (DVD PLAY)	1.6V	0.9V	0V	1.6V	5V	1.6V	1.6V	1.6V
PINS NUMBER	33	34	35	36	37	38		
VOLTAGE (DVD PLAY)	1.6V	3.3V	2.5V	0V	0V	0V		

IC104 (74LS157)

PINS NUMBER	5	6
VOLTAGE (DVD PLAY)	0V	5V

IC807 (74HC32)

PINS NUMBER	7	14
VOLTAGE (DVD PLAY)	0V	3.2V

IC808 (874HC14)

PINS NUMBER	7	14
VOLTAGE (DVD PLAY)	0V	3.2V

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

IC608 (PT2259)

PINS NUMBER	1	2	3	4	5	6	7	8
VOLTAGE (DVD PLAY)	2.7V	2.8V	0V	5V	2.7V	2.8V	5.8V	5V

IC609 (TP5228)

PINS NUMBER	1	2	3	4	5	6	7	8
VOLTAGE (DVD PLAY)	2.3V	4.9V	2.3V	0V	2.3V	2.3V	2.3V	4.9V

IC115/IC 605 (B1117)

PINS NUMBER	1	2	3
VOLTAGE (DVD PLAY)	1.5V	2.8V	5.0V

IC114 (RT9164)

PINS NUMBER	1	2	3
VOLTAGE (DVD PLAY)	5.7V	0V	3.3V

IC603/IC604 (BA05T)

PINS NUMBER	1	2	3
VOLTAGE (DVD PLAY)	6.5V	0V	5V

IC602 (7808)

PINS NUMBER	1	2	3
VOLTAGE (DVD PLAY)	11.5V	0V	7.9V

IC003 (LC72720)

PINS NUMBER	1	2	3	4	5	6	7	8
VOLTAGE (DVD PLAY)	2.4V	2.4V	4.8V	0V	2.4V	2.4V	0V	0V
PINS NUMBER	9	10	11	12	13	14	15	16
VOLTAGE (DVD PLAY)	0.4V	1.0V	1.5V	2.5V	2.5V	4.9V	0V	0V
PINS NUMBER	17	18	19	20	21	22	23	24
VOLTAGE (DVD PLAY)	4.4V	3.3V	3.0V	5V	5V	0V	0V	0V

IC002 (LC72131)

PINS NUMBER	1	2	3	4	5	6	7	8
VOLTAGE (DVD PLAY)	2.4V	0V	0V	5V	5V	4.6V	0V	0V
PINS NUMBER	9	10	11	12	13	14	15	16
VOLTAGE (DVD PLAY)	0V	0V	0V	4.8V	0V	2.3V	4.8V	1.0V
PINS NUMBER	17	18	19	20				
VOLTAGE (DVD PLAY)	1.0V	3.3V	0V	2.4V				

IC110 (WM8772)

PINS NUMBER	1	2	3	4	5	6	7	8
VOLTAGE (DVD PLAY)	0V	1.4V	1.6V	1.6V	5V	0V	0.9V	0.8V
PINS NUMBER	9	10	11	12	13	14	15	16
VOLTAGE (DVD PLAY)	0.9V	2.4V	4.2V	4.2V	0.1V	0V	5V	0V
PINS NUMBER	17	18	19	20	21	22	23	24
VOLTAGE (DVD PLAY)	2.5V	2.4V	2.5V	2.5V	2.5V	2.5V	2.5V	2.5V
PINS NUMBER	25	26	27	28				
VOLTAGE (DVD PLAY)	2.5V	5V	0V	2.5V				

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

IC802 (LA9703W)

PINS NUMBER	1	2	3	4	5	6	7	8
VOLTAGE (DVD PLAY)	2.6V	5V	3.6V	3.7V	3.7V	3.7V	3.7V	2.5V
PINS NUMBER	9	10	11	12	13	14	15	16
VOLTAGE (DVD PLAY)	2.5V	2.5V	2.5V	2.5V	2.5V	2.5V	5V	0.2V
PINS NUMBER	17	18	19	20	21	22	23	24
VOLTAGE (DVD PLAY)	3.8V	0.2V	0V	0V	0V	3.2V	0V	0V
PINS NUMBER	25	26	27	28	29	30	31	32
VOLTAGE (DVD PLAY)	0V	2.5V	2.5V	3.3V	5V	0V	3.2V	1.0V
PINS NUMBER	33	34	35	36	37	38	39	40
VOLTAGE (DVD PLAY)	2.0V	1.6V	1.6V	1.6V	1.6V	2.2V	1.7V	1.6V
PINS NUMBER	41	42	43	44	45	46	47	48
VOLTAGE (DVD PLAY)	1.7V	1.6V	0V	1.6V	1.2V	1.2V	2.4V	3.3V
PINS NUMBER	49	50	51	52	53	54	55	56
VOLTAGE (DVD PLAY)	1.2V	2.7V	1.6V	2.6V	2.4V	2.6V	2.6V	0V
PINS NUMBER	57	58	59	60	61	62	63	64
VOLTAGE (DVD PLAY)	0.6V	2.5V	2.5V	2.5V	2.5V	2.8V	5V	2.7V

IC503 DDX-8000

PINS NUMBER	1	2	3	4	5	6	7	8
VOLTAGE (DVD PLAY)	0V	0V	3V	0V	2.8V	0V	0V	0V
PINS NUMBER	9	10	11	12	13	14	15	16
VOLTAGE (DVD PLAY)	1.3V	1.0V	1.6V	3.0V	0V	2.8V	3.2V	0V
PINS NUMBER	17	18	19	20	21	22	23	24
VOLTAGE (DVD PLAY)	0V	4.3V	4.3V	0V	1.2V	2.8V	0V	3.0V
PINS NUMBER	25	26	27	28	29	30	31	32
VOLTAGE (DVD PLAY)	1.4V	2.8V	0V	3.0V	0V	0V	0V	0V
PINS NUMBER	33	34	35	36	37	38	39	40
VOLTAGE (DVD PLAY)	0.2V	0.2V	2.2V	3.0V	0V	2.8V	0.2V	0.2V
PINS NUMBER	41	42	43	44	45	46	47	48
VOLTAGE (DVD PLAY)	0.2V	0.2V	0V	0V	3.0V	2.8V	0V	0V
PINS NUMBER	49	50	51	52	53	54	55	56
VOLTAGE (DVD PLAY)	0V	0.3V	3.0V	0V	2.8V	1.4V	0V	0.2V
PINS NUMBER	57	58	59	60	61	62	63	64
VOLTAGE (DVD PLAY)	0V	3.0V	0V	2.8V	1.0V	0V	0.2V	3.0V

IC001 (LA1837)

PINS NUMBER	1	2	3	4	5	6	7	8
VOLTAGE (DVD PLAY)	3.5V	8.6V	3.5V	3.5V	0.1V	0V	0.2V	8.6V
PINS NUMBER	9	10	11	12	13	14	15	16
VOLTAGE (DVD PLAY)	8.6V	1.3V	3.2V	0V	0V	7.5V	7.5V	4.3V
PINS NUMBER	17	18	19	20	21	22	23	24
VOLTAGE (DVD PLAY)	4.3V	4.3V	4.3V	3.2V	3.2V	2.8V	3.4V	0.2V
PINS NUMBER	25	26	27	28	29	30		
VOLTAGE (DVD PLAY)	0V	3.6V	3.6V	3.6V	3.6V	1.8V		

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

IC500/IC501/IC502 (STA505)

PINS NUMBER	1	2	3	4	5	6	7	8
VOLTAGE (DVD PLAY)	0V	2.1V	2.1V	31.3V	0V	0V	31.3V	2.1V
PINS NUMBER	9	10	11	12	13	14	15	16
VOLTAGE (DVD PLAY)	2.1V	2.1V	2.1V	31.3V	0V	31.3V	2.1V	0.4V
PINS NUMBER	17	18	19	20	21	22	23	24
VOLTAGE (DVD PLAY)	0V	0V	5.0V	5.0V	5.0V	0V	3.0V	3.0V
PINS NUMBER	25	26	27	28	29	30	31	32
VOLTAGE (DVD PLAY)	3.0V	3.0V	3.0V	0.2V	0.2V	0.2V	0.2V	0.2V
PINS NUMBER	33	34	35	36				
VOLTAGE (DVD PLAY)	26.2V	26.2V	31.3V	31.3V				

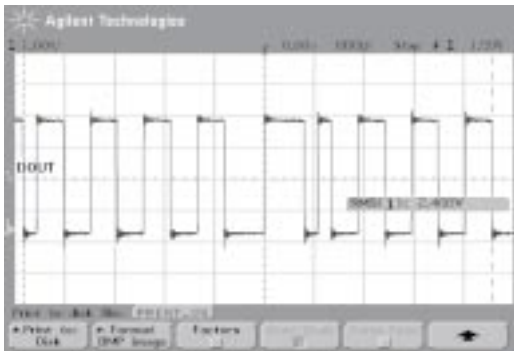
HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

WAVEFORMS OF DVD CIRCUIT

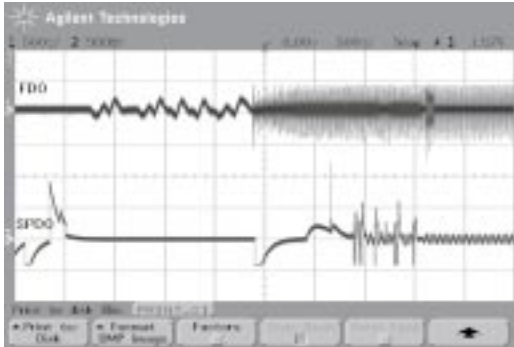
- 1 IC106 40PIN
- 2 IC106 PIN
- 3 IC106 PIN
- 4 IC106 6PIN
- 5 IC106 PIN



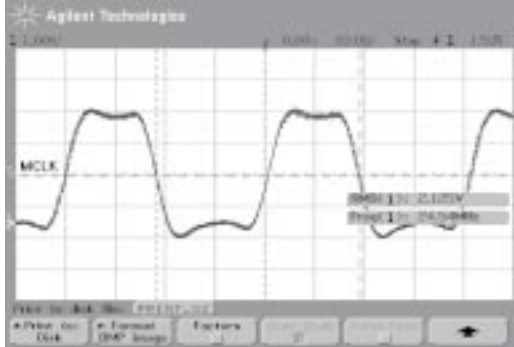
9 IC803 142PIN



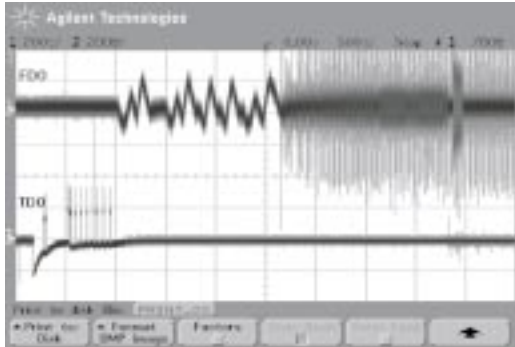
- 6 IC803 33PIN
- 7 IC803 3 PIN



10 IC106 39PIN



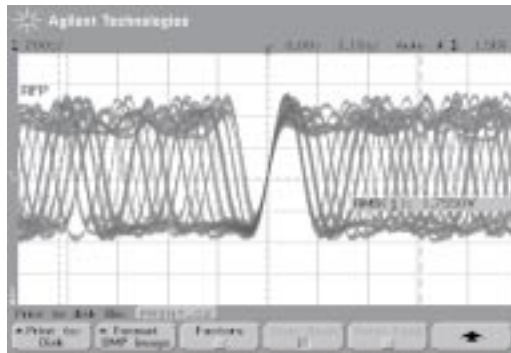
- 6 IC803 33PIN
- 7 IC803 3 PIN



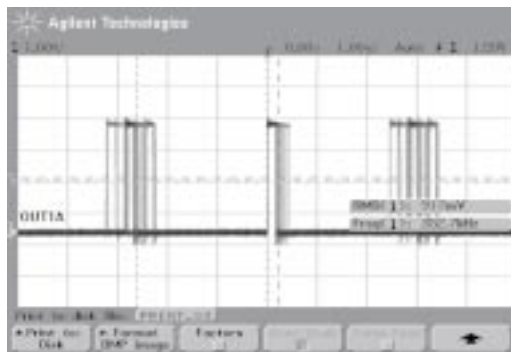
11 IC106 102PIN



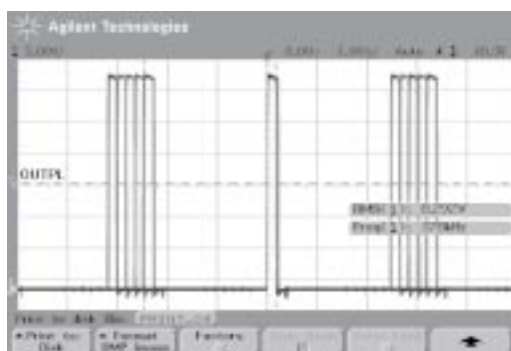
12 IC802 55PIN



13 IC503 50PIN



14 IC501 16PIN



TROUBLESHOOTING

If you experience any of the following difficulties while using the system, use troubleshooting guide to help you remedy the problem. Should any problem persist, consult your nearest service center.

No power

- Is the power cord firmly plugged into the power outlet?
- One of the safety mechanisms may be operating. In this event, unplug the player from the power outlet briefly and then plug it in again.

No picture

- Check that the system is connected securely.
- The video connecting cord is damaged. Replace it with a new one.
- Make sure you connect the system to video input connector on the TV.
- Make sure you turn on the TV.
- Make sure you select the video input on the TV so that you can view the pictures from this system.

The picture noise appears

- Clear the disc.
- If video from this system has to go through your VCR to get to your TV, the copy-protection applied to some DVD programs could affect picture quality. If you still experience problems after checking your connections, please try connecting your DVD system directly to your TV's S-Video input, if your TV is equipped with this input.

The aspect ratio of the screen cannot be changed even though you set "TV DISPLAY" in the SETUP menu when you play a wide picture.

- The aspect rate is fixed on your DVD disc.
- If you connect the system with the S-Video cable, connect directly to the TV. Otherwise, you may not change the aspect rate.
- Depending on the TV, you may not change the aspect rate.

There is no sound or only a very low-level sound is heard.

- Check that the speakers and components are connected securely.
- Make sure that you have selected the correct source on the system.
- The protective device on the system has been activated because of a short circuit. Turn off the system, eliminate the short-circuit problem and turn on the power again.
- The audio connecting cord is damaged. Replace it with a new one.
- The system or fast reverse is performed. Press **PLAY/PAUSE** ►/■ to return to normal play mode.
- Check the speaker settings.

The left and right sounds are unbalanced or reversed

- Check that the speakers and components are connected correctly and securely.
- Adjust front balance parameter using **SELECT** and **VOLUME +/-**.

Severe hum or noise is heard.

- Check that the speakers and components are connected securely.
- Check that the connecting cords are away from a transformer or motor, and at least 3 meters away from a TV set or fluorescent light.
- Move your TV away from the audio components.
- The plugs and jacks are dirty. Wipe them with a cloth slightly moistened with alcohol.
- Clear the disc.

The sound loses stereo effect when you play a Video CD or a CD.

- Set the Audio mode to "STEREO" in the SETUP menu.
- Make sure you connect the system appropriately.
- The surround effect is difficult to hear when you are playing a Dolby Digital sound track.
- Check the speaker connections.
- Depending on the DVD disc, the output signal may not be the entire 5.1 channel but monaural or stereo even if the sound track is recorded in Dolby Digital format.

The sound comes from the center speaker only.

- Depending on the disc, the sound may come from the center speaker only.

No sound is heard from the center speaker.

- Make sure the Center is set to "ON" in SETUP menu.
- You may set the listening mode to Dolby Pro Logic Phantom.
- Adjust the speaker volume.

No sound or only a very low-level sound is heard from the rear speakers.

- Make sure the Rear is set to "ON" in SETUP menu.
- Adjust the speaker volume.

The language for the subtitles cannot be changed when you play a DVD.

- Multilingual subtitles are not recorded on the DVD.
- Changing the language for the subtitles is prohibited on the DVD.

The subtitles cannot turned off when you play a DVD.

- Depending on the DVD, you may not be able to turn the subtitles off.

The angles cannot be changed when you play a DVD.

- Multi-angles are not recorded on the DVD.
- Change the angles when the angle mark appears on the TV screen.
- Changing the angles is prohibited on the DVD.

The system does not operate properly.

- Static electricity, etc., may affect the system's operation.
- Press the POWER button to turn off, then press again to turn

FUNCTION TABLE OF IC

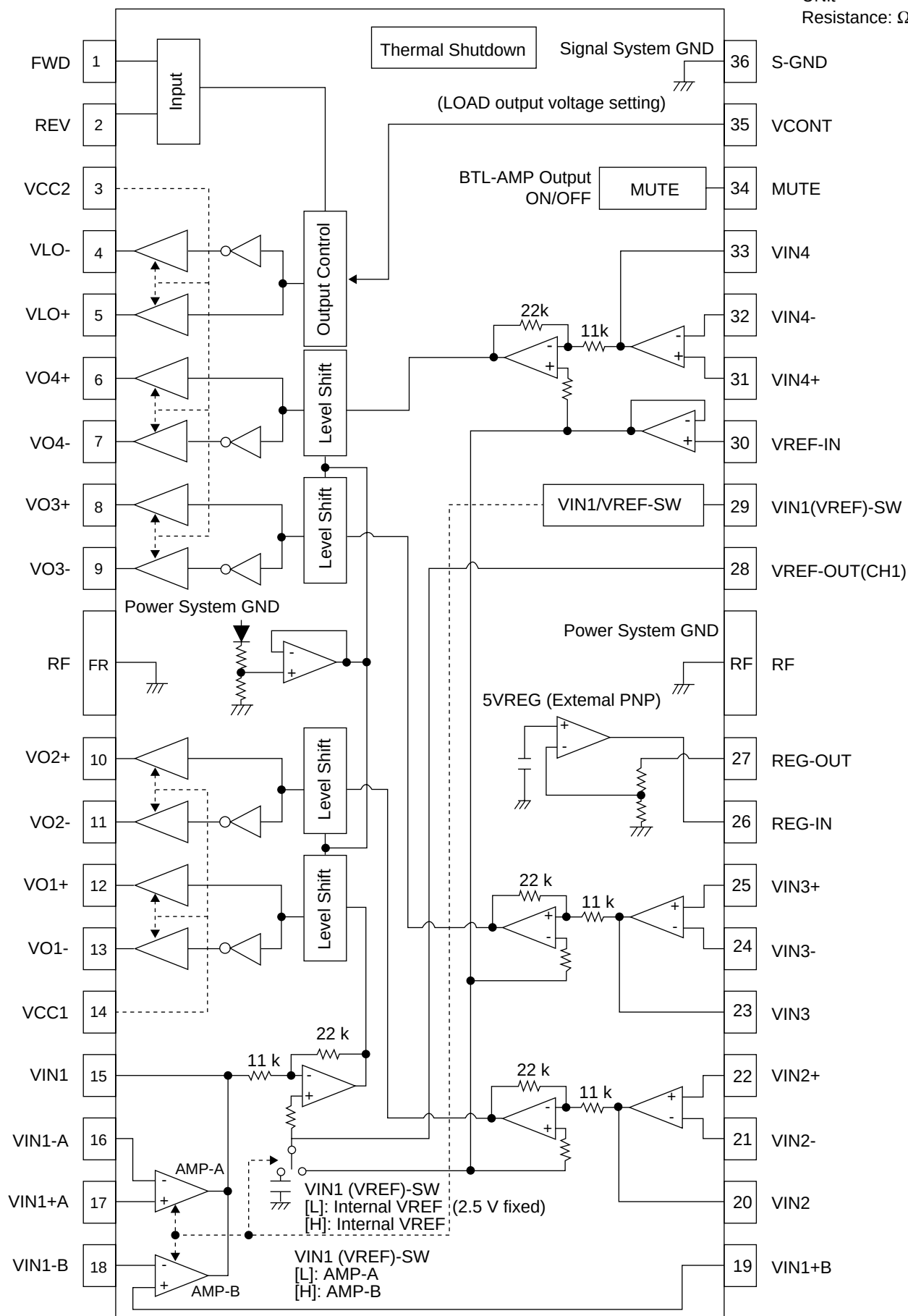
IC801 92LRCI6560-001: Motor Driver (LA6560)

Pin No.	Port Name	Function
1	FWD	Output change pin (FWD) for 5CH (VLO), logic input for loading block.
2	REV	Output change pin (REV) for 5CH (VLO), logic input for loading block.
3	VCC2	Power supply for CH3, 4 and 5.
4	VLO-	Loading output (-).
5	VLO+	Loading output (+).
6	VO4+	Output pin (+) for channel 4.
7	VO4-	Output pin (-) for channel 4.
8	VO3+	Output pin (+) for channel 3.
9	VO3-	Output pin (-) for channel 3.
10	VO2+	Output pin (+) for channel 2.
11	VO2-	Output pin (-) for channel 2.
12	VO1+	Output pin (+) for channel 1.
13	VO1-	Output pin (-) for channel 1.
14	VCC1	Power supply for CH1, 2 (BTL).
15	VIN1	Input pin for channel 1.
16	VIN1-A	OP-AMP input AMP-A input pin (-).
17	VIN1+A	OP-AMP input AMP-A input pin (+).
18	VIN1-B	Input AMP-B input pin (-) for channel 1.
19	VIN1+B	Input AMP-B input pin (+)for channel 1.
20	VIN2	Input pin for channel 2, input AMP output.
21	VIN2-	Input pin (-) for channel 2.
22	VIN2+	Input pin (+) for channel 2.
23	VIN3	Input pin for channel 3, input AMP output.
24	VIN3-	Input pin (-) for channel 3.
25	VIN3+	Input pin (+) for channel 3.
26*	REG-IN	PNP transistor base connected.
27*	REG-OUT	5 V power output to which the PNP transistor collector connected.
28*	VREF-OUT	CH1 reference voltage output. Outputs internal VREF (2.5 V:TYP) or external VREF.
29	VIN1 (VREF)-SW	Pin for changeover between input AMP-A/internal VREF (TYP2.5 V) and input AMP-B/external VREF.
30	VREF-IN	Reference voltage applied pin.
31	VIN4+	Input pin (+) for channel 4.
32	VIN4-	Input pin (-) for channel 4.
33	VIN4	Input pin for channel 4, input AMP output.
34	MUTE	All BTL AMP output ON/OFF.
35	VCONT	Loading output voltage setting.
36	S-GND	Signal system GND.

* Center frame (FR) becomes GND for the power system (P-GND). Set this to the minimum potential together with S-GND. In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC801 92LRCI6560-001: Motor Driver (LA6560)

UNit
Resistance: Ω



IC003 92LRCI7272-002: RDS (LC72720NM)

Pin No.	Port Name	Input/Output	Function
1	VREF	Output	Reference voltage output (VDDA/2).
2	MPXIN	Input	Baseband (multiplexed) signal input.
3	VDDA	—	Analog system power supply (+5 V).
4	VSSA	—	Analog system ground.
5	FLOUT	Output	Subcarrier output (filter output).
6	CIN	Input	Subcarrier input (comparator input).
7	T1	Input	Test input (This pin must always be connected to ground.).
8	T2	Input	Test input (stand-by control). 0: Normal operation, 1: Stand-by state. (crystal oscillator stopped).
9*	T3 (RDCL)	Input/Output*	Test I/O (RDS clock output).
10*	T4 (RDDA)	Input/Output*	Test I/O (RDS data output).
11*	T5 (RSFT)	Input/Output*	Test I/O (Soft-decision control data output).
12	XOUT	Output	Crystal oscillator output (4.332/8.664 MHz).
13	XIN	Input	Crystal oscillator input. (external reference signal input).
14	VDDD	—	Digital system power supply (+5 V).
15	VSSD	—	Digital system ground.
16*	T6 (ERROR/57K/BE1)	Input/Output*	Test I/O (Error status output, regenerated carrier output, error block count output).
17*	T7 (CORREC/ARI-ID/BE0)	Input/Output*	Test I/O (Error correction status output, SK detection output, error block count output).
18*	SYNC	Input/Output*	Block synchronization detection output.
19*	RDS-ID	Output	RDS detection output.
20	DO	Output	Data output. Serial data interface (CCB).
21	CL	Input	Clock output. Serial data interface (CCB).
22	DI	Input	Data input. Serial data interface (CCB).
23	CE	Input	Chip enable. Serial data interface (CCB).
24	SYR	Input	Synchronization and RAM address reset (active high).

Note: * Normally function as an output pin. Used as an I/O pin in test mode, which is not available to user applications.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

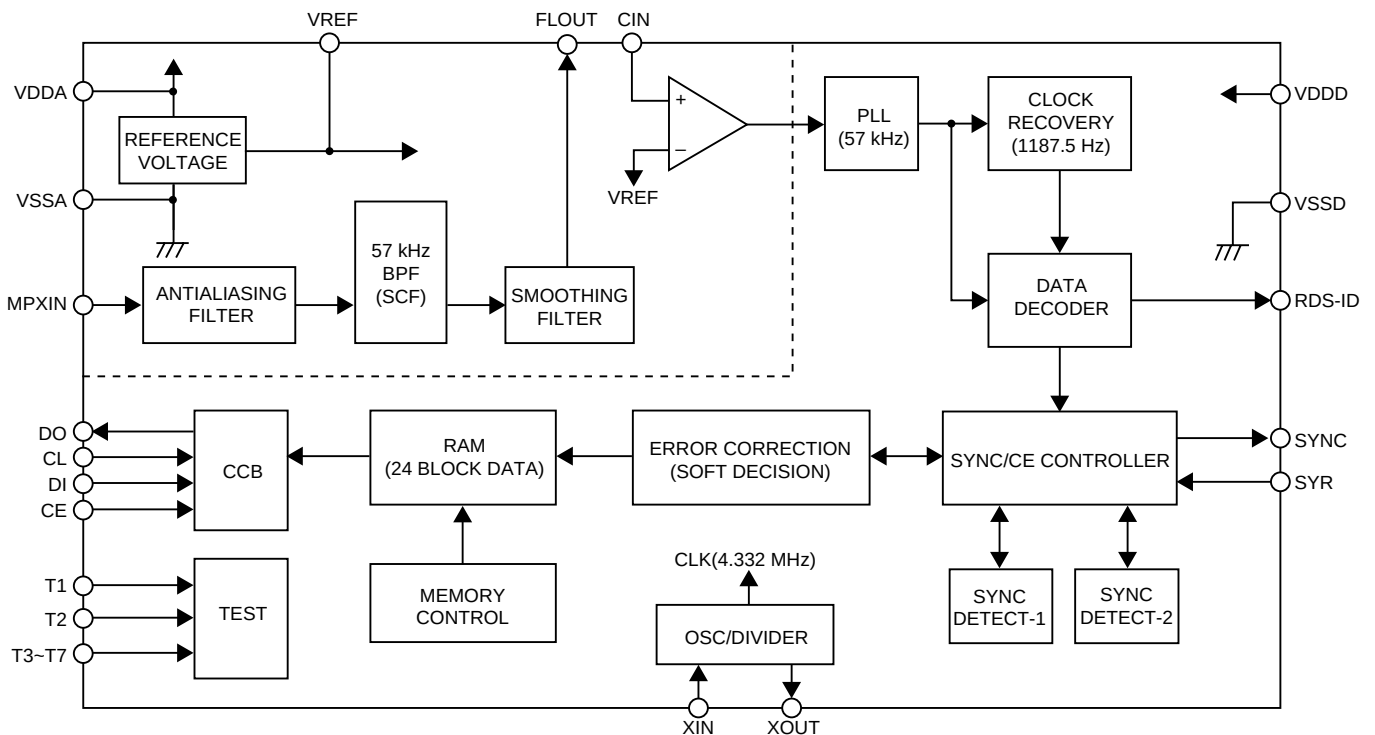


Figure 41 BLOCK DIAGRAM OF IC

IC110 92LRCI8772-001: 6CH D/A 2CH A/D (WM8772)

Pin No.	Port Name	Input/Output	Function
1	MODE	Digital input	Control format selection. 0= Software control. 1= Hardware control.
2	MCK	Digital input	Master clock; 256, 384, 512 or 768 fs (fs= word clock frequency).
3	BCLK	Digital input/output	Audio interface bit clock.
4	LRC	Digital input/output	Audio left/right word clock.
5	DVDD	Supply	Digital positive supply.
6	DGND	Supply	Digital negative supply.
7	DIN1	Digital input	DAC channel 1 data input.
8	DIN2	Digital input	DAC channel 2 data input.
9	DIN3	Digital input	DAC channel 3 data input.
10	DOUT	Digital output	ADC data output.
11	ML/I2S	Digital input	Software Mode: Serial interface Latch signal. Hardware Mode: Input Audio Data Format.
12	MC/IWL	Digital input	Software Mode: Serial control interface clock. Hardware Mode: Audio data input word length.
13	MD/DM	Digital input	Software Mode: Serial interface data. Hardware Mode: De-emphasis selection.
14*	MUTE	Digital input/output	DAC Zero Flag output or DAC mute input.
15	REFADC	Analogue output	ADC reference buffer decoupling pin; 10 μ F external decoupling.
16	VREFN	Supply	ADC and DAC negative supply and substrate connection.
17	VREFP	Supply	DAC positive reference supply.
18	VMID	Analogue output	Midrail divider decoupling pin; 10 μ F external decoupling.
19	AINR	Analogue input	ADC right input.
20	AINL	Analogue input	ADC left input.
21	VOUT1L	Analogue output	DAC channel 1 left output.
22	VOUT1R	Analogue output	DAC channel 1 right output.
23	VOUT2L	Analogue output	DAC channel 2 left output.
24	VOUT2R	Analogue output	DAC channel 2 right output.
25	VOUT3L	Analogue output	DAC channel 3 left output.
26	VOUT3R	Analogue output	DAC channel 3 right output.
27	AGND	Supply	Analogue negative supply and substrate connection.
28	AVDD	Supply	Analogue positive supply.

Note: Digital input pins have Schmitt trigger input buffers.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

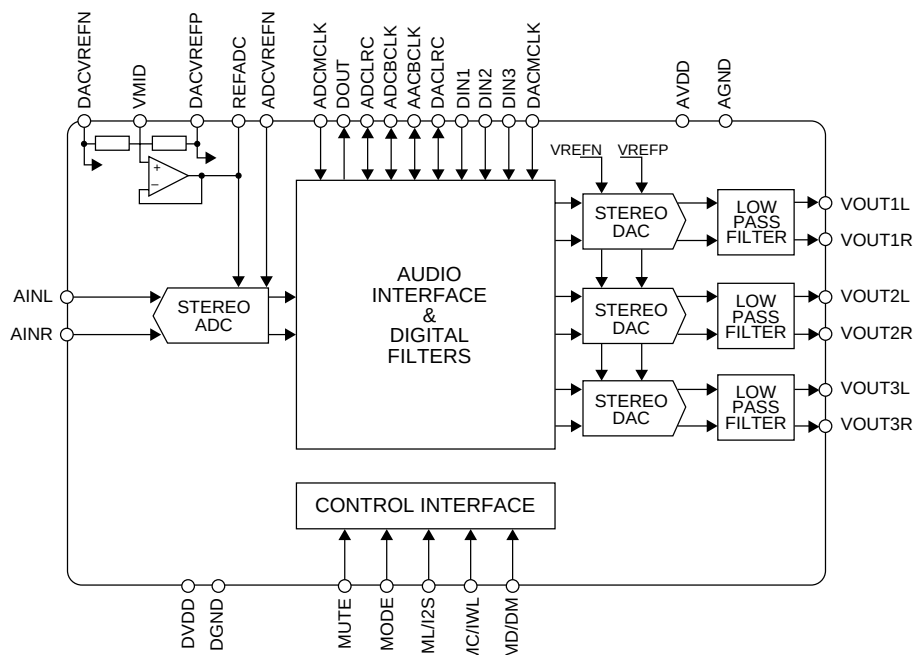


Figure 42 BLOCK DIAGRAM OF IC

IC503 92LRCI0308-001: Audio Processor (STA308) (1/2)

Pin No.	Port Name	Input/Output	Function
1	MVO	Input	Master Volume Override.
2	GND	—	Digital Ground.
3	VDD3	—	3.3 V Digital Supply.
4	GND	—	Digital Ground.
5	VDD	—	2.5 Digital Supply.
6	SDI_78	Input	Input I2S Serial Data Channels 7 & 8.
7	SDI_56	Input	Input I2S Serial Data Channels 5 & 6.
8	SDI_34	Input	Input I2S Serial Data Channels 3 & 4.
9	SDI_12	Input	Input I2S Serial Data Channels 1 & 2.
10	LRCKI	Input	Input I2S Left/Right Clock.
11	BICKI	Input	Input I2S Serial Clock.
12	VDD3	—	3.3 V Digital Supply.
13	GND	—	Digital Ground.
14	VDD	—	2.5 Digital Supply.
15	RESET	Input	Global Reset.
16	PLLB	Input	PLL Bypass.
17	SA	Input	Select Address (I2C).
18	SDA	Input/Output	I2C Serial Data.
19	SCL	Input	I2C Serial Clock.
20	XTI	Input	Crystal Oscillator Input (Clock Input).
21	FILTER_PLL		PLL Filter.
22	VDDA		PLL 2.5 V Supply.
23	GNDA		PLL Ground.
24	VDD3	—	3.3 V Digital Supply.
25*	CKOUT	Output	Clock Output.
26	VDD	—	2.5 Digital Supply.
27	GND	—	Digital Ground.
28	VDD3	—	3.3 V Digital Supply.
29*	OUT8_B	Output	PWM Channel 8 Output B.
30*	OUT8_A	Output	PWM Channel 8 Output A.
31*	OUT7_B	Output	PWM Channel 7 Output B.
32*	OUT7_A	Output	PWM Channel 7 Output A.
33	OUT6_B	Output	PWM Channel 6 Output B.
34	OUT6_A	Output	PWM Channel 6 Output A.
35	VDD3	—	3.3 V Digital Supply.
36	GND	—	Digital Ground.
37	VDD	—	2.5 Digital Supply.
38	OUT5_B	Output	PWM Channel 5 Output B.
39	OUT5_A	Output	PWM Channel 5 Output A.
40	OUT4_B	Output	PWM Channel 4 Output B.
41	OUT4_A	Output	PWM Channel 4 Output A.
42	OUT3_B	Output	PWM Channel 3 Output B.
43	OUT3_A	Output	PWM Channel 3 Output A.
44	VDD3	—	3.3 V Digital Supply.
45	GND	—	Digital Ground.
46	VDD	—	2.5 Digital Supply.
47	OUT2_B	Output	PWM Channel 2 Output B.
48	OUT2_A	Output	PWM Channel 2 Output A.
49	OUT1_B	Output	PWM Channel 1 Output B.
50	OUT1_A	Output	PWM Channel 1 Output A.
51	EAPD	Output	External Amplifier Power Down.
52	VDD3	—	3.3 V Digital Supply.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

IC503 92LRCI0308-001: Audio Processor (STA308) (2/2)

Pin No.	Port Name	Input/Output	Function
53	GND	—	Digital Ground.
54	VDD	—	2.5 Digital Supply.
55*	BICKO	Output	Output I2S Serial Clock.
56*	LRCKO	Output	Output I2S Left/Right Clock.
57*	SDO_12	Output	Output I2S Serial Data Channel 1 & 2.
58*	SDO_34	Output	Output I2S Serial Data Channel 3 & 4.
59	VDD3	—	3.3 V Digital Supply.
60	GND	—	Digital Ground.
61	VDD	—	2.5 Digital Supply.
62*	SDO_56	Output	Output I2S Serial Data Channel 5 & 6.
63*	SDO_78	Output	Output I2S Serial Data Channel 7 & 8.
64	PWDN	Input	Device Powerdown.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

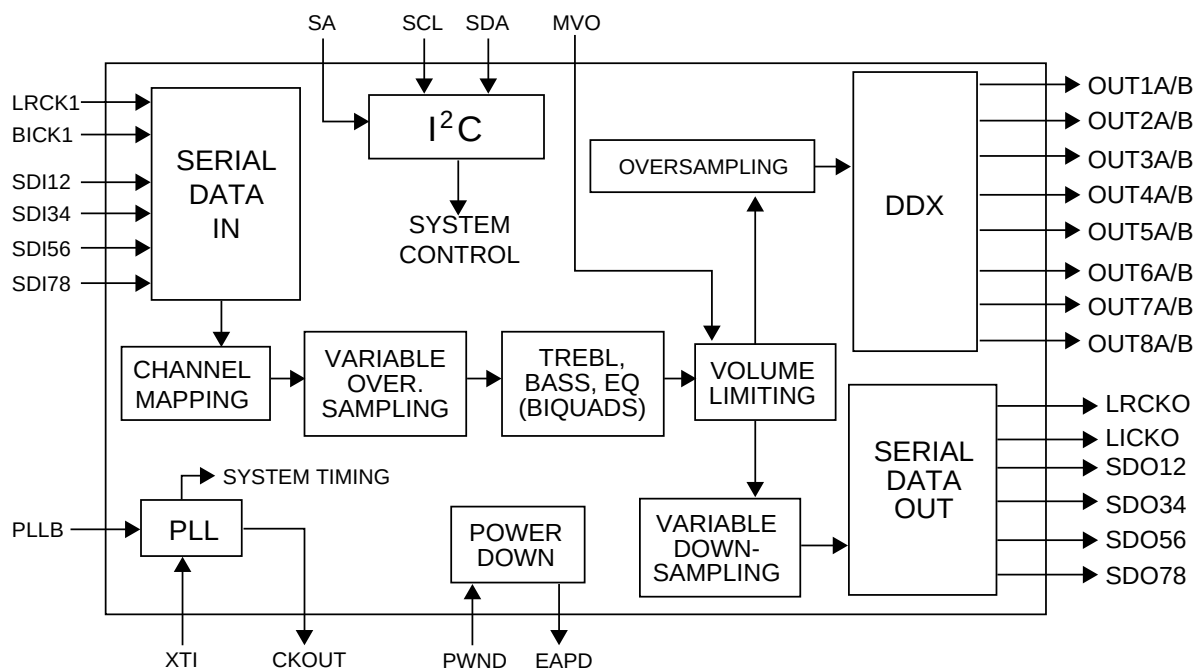


Figure 44 BLOCK DIAGRAM OF IC

IC107 92LRCI2402-002: EEP ROM (TA24C02N)

Pin No.	Port Name	Function
1	N.C.	No Connection.
2, 3	A0, A1	Address inputs.
4	N.C.	No Connection.
5	A2	Address inputs.
6	GND	
7, 8	N.C.	No Connection.
9	SDA	Serial data.
10	SCL	Serial clock input.
11	N.C.	No Connection.
12	WP	Write protect.
13	VCC	
14	N.C.	No Connection.

IC500, IC501, IC502 92LRCI0505-001: Power Amp. (STA505)

Pin No.	Port Name	Function
1	GND-SUB	Substrate ground.
2, 3	OUT2B	Output half bridge 2B.
4	VCC2B	Positive supply.
5	GND2B	Negative supply.
6	GND2A	Negative supply.
7	VCC2A	Positive supply.
8, 9	OUT2A	Output half bridge 2A.
10, 11	OUT1B	Output half bridge 1B.
12	VCC1B	Positive supply.
13	GND1B	Negative supply.
14	GND1A	Negative supply.
15	VCC1A	Positive supply.
16, 17	OUT1A	Output half bridge 1A.
18*	N.C.	Not connected.
19	GND-clean	Logical ground.
20	GND-Reg	Ground to regulator VDD.
21, 22	VDD	5 V regulator reference to ground.
23	IBIAS	High logical state setting voltage.
24	CONFIG	Configuration pin.
25	PWRDN	Stand-by pin.
26	TRI-STATE	Hi-Z pin.
27	FAULT	Fault pin advisor.
28	TH-WAR	Thermal warning advisor.
29	IN1A	Input of half bridge 1A.
30	IN1B	Input of half bridge 1B.
31	IN2A	Input of half bridge 2A.
32	IN2B	Input of half bridge 2B.
33, 34	VSS	5 V regulator reference to + VCC.
35, 36	VCC Sign	Signal positive supply.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

IC802 92LRCI09703-001: DVD Players RF Amp. (LA9703W) (2/1)

Pin No.	Port Name	Function
1	CAP	Customer OP amplifier + input.
2	VCC	Power pin (for DPD).
3	PDRF	Pickup signal input.
4-7	PD1-PD4	Pickup signal input.
8	GND	Ground (for DPD).
9, 10	FIN1, FIN2	Pickup signal input.
11*, 12*	PIN1, PIN2	Pickup signal input.
13, 14	TIN1, TIN2	Pickup signal input.
15	LDD1	AP1 input.
16	LDS1	APC1 monitor input.
17	LDD2	APC2 output.
18	LDS2	PC2 monitor input.
19	GND	Ground (servo system).
20	LDTH	APC1 threshold changeover (H: VCC-1.5 V, L: 180 mV).
21	LDON1	APC1 laser ON pin (H: ON).
22	LDON2	APC2 laser ON pin (H: ON).
23	AGOF	RFAGC OFF pin (H: OFF).
24	BCA	PH discharge factor changeover (H: BCA mode).
25	GU	RF, servo signal gain-up pin (H: gain-up).
26	DVD/CD	RF-equalizer band changeover pin (H: DVD).
27	DPD/TE	TE output changeover pin (H: DPD).
28	WO/PP	WO output changeover pin (H: wobble).
29	VCC	Power pin (servo system).
30	TH	Tracking hold (H: hold).
31	XHTR	Tracking, bottom band changeover (L: high band).
32	SGC	Servo gain control pin (RREC, FE, PP, TE).
33	BST	Equalizer boost control pin.
34	FC	Equalizer fo control pin.
35	FEBL	FE balance control pin.
36	TEBL	TE balance control pin.
37	CP	Pin to connect resistor and capacitor to set charge pump gain.
38	RREC	Reflection output.
39	FE	Focus error output.
40	TE	Tracking error output.
41	WO	Wobble/push-pull output pin.
42	PP	Push-pull output pin.
43	PPN	Pin to connect resistor to set push-pull gain.
44	WOC	DC cut capacity connection pin.
45	ISET	Pin to connect resistor to set BPF central frequency.
46	BH RF	bottom detection output.
47	PH	RF peak detection output.
48	SREFI	SREF setting pin.
49	BCAI	Pin to connect resistor to set the peak hold detection constant.
50	PHC	Pin to connect PH detection capacitor for RF-AGC.
51	SREF	Reference voltage output for servo signal.
52	LPC	Pin to connect capacitor for RF DC servo.
53*	N/C	N/C pin.
54	RFON	RF - output.
55	RFOP	RF + output.
56	GND	Ground.
57	FSET	Pin to connect resistor to set equalizer fo frequency.
58	RREF	Reference voltage output (for pick).

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC802 92LRCI09703-001: DVD Players RF Amp. (LA9703W) (2/2)

Pin No.	Port Name	Function
59	RFN	RF signal - input.
60*	N/C	N/C pin.
61	RFP	RF + signal.
62	CAO	Customer OP amplifier output pin.
63	VCC	Power pin (RF system).
64	CAN	Customer OP amplifier - input pin.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC001 92LRCI1837-001: Tuner (LA1837)

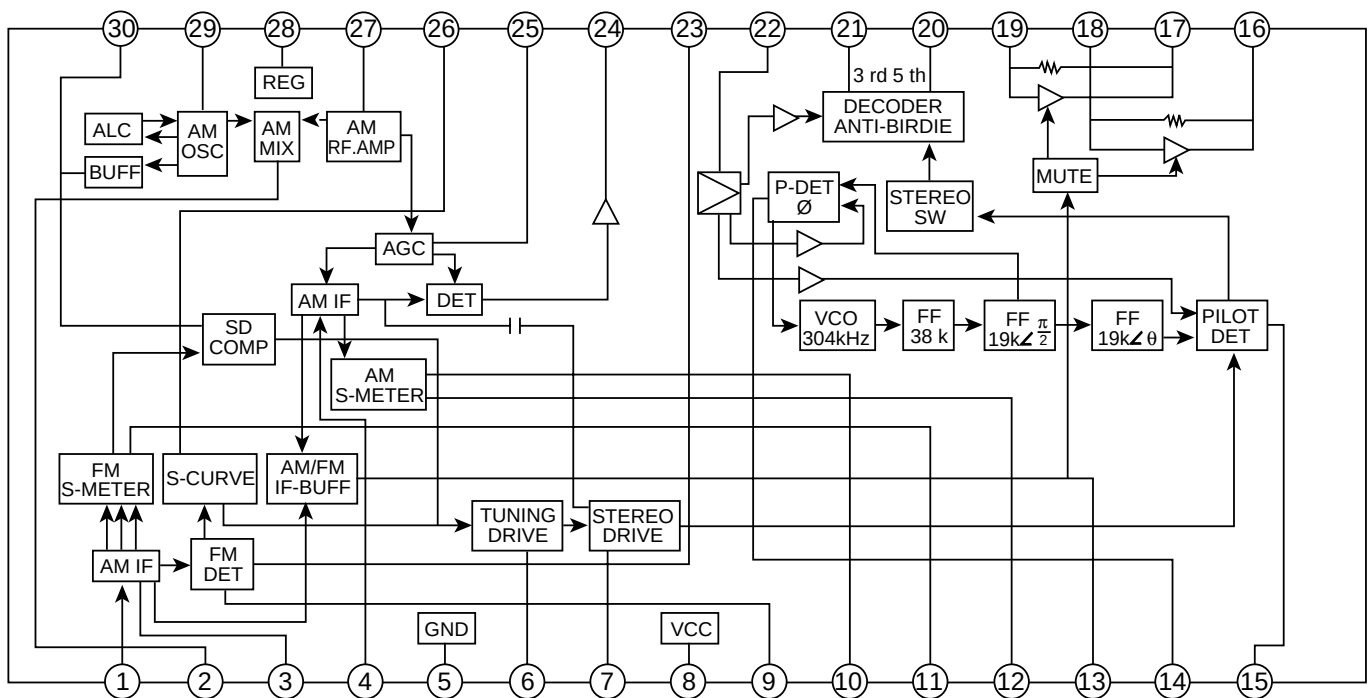


Figure 47 BLOCK DIAGRAM OF IC

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

IC106 92LRCI6028-001: Microcomputer (ES6028) (1/5)

Pin No.	Port Name	Input/Output	Function
1	VEE	Input	I/O power supply.
2-7	LA4-LA9	Output	Device address output.
8	VSS	Input	Ground.
9	VCC	Input	Core power supply.
10-16	LA10-LA16	Output	Device address output.
17	VSS	Input	Ground.
18	VEE	Input	I/O power supply.
19-22*,23*	LA17-LA21	Output	Device address output.
24	RESET#	Input	Reset input, active low.
25	TDMDX RSEL	Output Input	TDM transmit data. ROM Select.
26	VSS	Input	Ground.
27	VEE	Input	I/O power supply.
28	TDMDR	Input	TDM receive data.
29	TDMCLK	Input	TDM clock input.
30	TDMFS	Input	TDM frame sync.
31*	TDMTSC#	Output	TDM output enable.
32	TWS SEL_PLL2	Output Input	Audio transmit frame sync. System and DSCK output clock frequency selection is made at the rising edge of RESET#. The matrix below lists the available clock frequencies and their respective PLL bit settings.
33	TSD0 SEL_PLL0	Output Input	Audio transmit serial data port 0. Refer to the description and matrix for SEL_PLL2 pin 32.
34	VSS	Input	Ground.
35	VCC	Input	Core power supply.
36	TSD1 SEL_PLL1	Output Input	Audio transmit serial data port 1. Refer to the description and matrix for SEL_PLL2 pin 32.
37	TSD2	Output	Audio transmit serial data output 2.
38*	TSD3	Output	Audio transmit serial data output 3
39	MCLK	Input/Output	Audio master clock for audio DAC.
40	TBCK	Output	Audio transmit bit clock.
41	SPDIF SEL_PLL3	Output Input	S/PDIF output. Clock source select.
42*	N.C.		No connect pins. Leave open.
43	VSS	Input	Ground.
44	VCC	Input	Core power supply.
45*	RSD	Input	Audio receive serial data.
46*	RWS	Input	Audio receive frame sync.
47*	RBCK	Input	Audio receive bit clock.
48*	N.C.		No connect pins. Leave open.
49	XIN	Input	Crystal input.
50	XOUT	Output	Crystal output.
51	AVEE	Input	Analog power for PLL.
52	VSS	Input	Ground.
53	DMA0	Output	DRAM address bus 0.
54	DMA1	Output	DRAM address bus 1.
55	DMA2	Output	DRAM address bus 2.
56	DMA3	Output	DRAM address bus 3.
57	DMA4	Output	DRAM address bus 4.
58	DMA5	Output	DRAM address bus 5.
59	VEE	Input	I/O power supply.
60	VSS	Input	Ground.
61	DMA6	Output	DRAM address bus 6.
62	DMA7	Output	DRAM address bus 7.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC106 92LRCI6028-001: Microcomputer (ES6028) (2/5)

Pin No.	Port Name	Input/Output	Function
63	DMA8	Output	DRAM address bus 8.
64	DMA9	Output	DRAM address bus 9.
65	DMA10	Output	DRAM address bus 10.
66	DMA11	Output	DRAM address bus 11.
67	VSS	Input	Ground.
68	VEE	Input	I/O power supply.
69	DCAS#	Output	DRAM column address strobe.
70	DOE# DSCL_EN	Output Output	DRAM output enable. DRAM clock enable.
71	DWE#	Output	DRAM write enable.
72	DRAS#	Output	DRAM row address strobe.
73	DMBS0	Output	SDRAM bank select 0.
74	DMBS1	Output	SDRAM bank select 1.
75	VEE	Input	I/O power supply.
76	VSS	Input	Ground.
77	DB0	Input/Output	DRAM data bus 0.
78	DB1	Input/Output	DRAM data bus 1.
79	DB2	Input/Output	DRAM data bus 2.
80	DB3	Input/Output	DRAM data bus 3.
81	DB4	Input/Output	DRAM data bus 4.
82	DB5	Input/Output	DRAM data bus 5.
83	VCC	Input	Core power supply.
84	VSS	Input	Ground.
85	DB6	Input/Output	DRAM data bus 6.
86	DB7	Input/Output	DRAM data bus 7.
87	DB8	Input/Output	DRAM data bus 8.
88	DB9	Input/Output	DRAM data bus 9.
89	DB10	Input/Output	DRAM data bus 10.
90	DB11	Input/Output	DRAM data bus 11.
91	VSS	Input	Ground.
92	VEE	Input	I/O power supply.
93	DB12	Input/Output	DRAM data bus 12.
94	DB13	Input/Output	DRAM data bus 13.
95	DB14	Input/Output	DRAM data bus 14.
96	DB15	Input/Output	DRAM data bus 15.
97*	DCS1#	Output	SDRAM chip select 1.
98	VSS	Input	Ground.
99	VEE	Input	I/O power supply.
100	DCS0#	Output	SDRAM chip select 0.
101	DQM	Output	Data input/output mask.
102	DSCK	Output	Output clock to SDRAM.
103	VSS	Input	Ground.
104	VEE	Input	I/O power supply.
105	DCLK	Input	27 MHz clock input to PLL.
106	YUV0 CAMIN2 UDAC	Output Input Output	YUV0 pixel output data. Camera input 2. Video DAC output. Y: Luma component for YUV and Y/C processing. C: Chrominance signal for Y/C processing U: Chrominance component signal for YUV mode. V: Chrominance component signal for YUV mode.
107	YUV1 VREF	Output Input	YUV1 pixel output data. Internal voltage reference to video DAC. Bypass to ground with 0.1 μ F capacitor.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

IC106 92LRCI6028-001: Microcomputers (ES6028) (3/5)

Pin No.	Port Name	Input/Output	Function
108	YUV2 CDAC	Output output	YUV2 pixel output data. Video DAC output. Refer to description and matrix for UDAC pin 106.
109	YUV3 COMP	Output Input	YUV3 pixel output data. Compensation input. Bypass to ADVEE with 0.1 μ F capacitor.
110	YUV4 RSET	Output Input	YUV4 pixel output data. DAC current adjustment resistor input.
111	ADVEE	Input	Analog power for video DAC.
112*	VSS	Input	Ground.
113	YUV5 YDAC	Output Output	YUV5 pixel output data. Video DAC output. Refer to description and matrix for UDAC pin 106.
114	YUV6 VDAC	Output Output	YUV6 pixel output data. Video DAC output. Refer to description and matrix for UDAC pin 106.
115*	YUV7 CAMIN3	Output Input	YUV7 pixel output data. Camera YUV 3.
116*	PCLK2XSCN CAMIN4	Input/Output Input	27 MHz video output pixel clock. Camera YUV 4.
117	PCLKQSCN CAMIN5	Output Input	13.5 MHz video output pixel clock. Camera YUV 5.
118	VSYN# CAMIN6	Input/Output Input	Vertical sync, active low. Camera YUV 6.
119	HSYN# CAMIN7	Input/Output Input	Horizontal sync, active low. Camera YUV 7.
120	VSS	Input	Ground.
121	VCC	Input	Core power supply.
122	HD0 DCI0 AUX10	Input/Output Input/Output Input/Output	Host data I/O 0. DVD channel data I/O 0. Aux1 data I/O 0.
123	HD1 DCI1 AUX11	Input/Output Input/Output Input/Output	Host data I/O 1. DVD channel data I/O 1. Aux1 data I/O 1.
124	HD2 DCI2 AUX12	Input/Output Input/Output Input/Output	Host data I/O 2. DVD channel data I/O 2. Aux1 data I/O 2.
125	HD3 DCI3 AUX13	Input/Output Input/Output Input/Output	Host data I/O 3. DVD channel data I/O 3. Aux1 data I/O 3.
126	HD4 DCI4 AUX14	Input/Output Input/Output Input/Output	Host data I/O 4. DVD channel data I/O 4. Aux1 data I/O 4.
127	HD5 DCI5 AUX15	Input/Output Input/Output Input/Output	Host data I/O 5. DVD channel data I/O 5. Aux1 data I/O 5.
128	HD6 DCI6 DCI6 AUX16 VFD_DOUT	Input/Output Input/Output Input/Output Input/Output Input	Host data I/O 6. DVD channel data I/O 6. DVD channel data I/O 6. Aux1 data I/O 6. VFD data output.
129	VSS	Input	Ground.
130	VEE	Input	I/O power supply.
131	HD7 DCI7 AUX17 VFD_DIN	Input/Output Input/Output Input/Output Input	Host data I/O 7. DVD channel data I/O 7. Aux1 data I/O 7. VFD data input.
132	HD8 DCI_FDS# AUX20 VFD_CLK	Input/Output Input/Output Input/Output Input	Host data bus 8. DVD input sector start. Aux2 data I/O 0. VFD clock input.
133	HD9 AUX21 SQSQ	Input/Output Input/Output Input	Host data line 9. Aux2 data I/O 1. Subcode-Q data.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC106 92LRCI6028-001: Microcomputers (ES6028) (4/5)

Pin No.	Port Name	Input/Output	Function
134	HD10 AUX22 SQSK	Input/Output Input/Output Input	Host data line 10. Aux2 data I/O 2. Subcode-Q clock.
135	HD11 AUX23 IRQ	Input/Output Input/Output Output	Host data line 11. Aux2 data I/O 3 when selected. IRQ output.
136	HD12 AUX24 C2PO	Input/Output Input/Output Input	Host data line 12. Aux2 data I/O 4 when selected. C2PO error correction flag from CD-ROM.
137	HD13 AUX25 SP	Input/Output Input/Output Input	Host data line 13. Aux2 data I/O 5 when selected. 16550 UART serial port input.
138	VSS	Input	Ground.
139	VCC	Input	Core power supply.
140	HD14 AUX26 SQSI	Input/Output Input/Output Input	Host data line 14. Aux2 data I/O 6 when selected. Subcode-Q sync.
141	HD15 AUX27 IR	Input/Output Input/Output Input	Host data line 15. Aux2 data I/O 7 when selected. IR remote control input.
142	HWRQ# DCI_REQ# AUX41	Output Output Input/Output	Host write request. DVD control interface request. Aux4 data I/O 1.
143	HRRQ# AUX40	Output Input/Output	Host read request. Aux4 data I/O 0.
144	HIRQ DCI_ERR# AUX47	Input/Output Input/Output Input/Output	Host interrupt. DVD channel data error. Aux4 data I/O 7.
145	HRST# AUX35	Output Input/Output	Host reset. Aux3 data I/O 5.
146	HIORDY AUX33	Input Input/Output	Host I/O ready. Aux3 data I/O 3.
147	VSS	Input	Ground.
148	VEE	Input	I/O power supply.
149	HWR# DCI_CLK AUX45	Input/Output Input/Output Input/Output	Host write. DVD channel data clock. Aux4 data I/O 5.
150	HRD# DCI_ACK# AUX46	Output Output Input/Output	Host read. DVD channel data valid. Aux4 data I/O 6.
151	HIOSC16# CAMCLK AUX34	Input Input Input/Output	Device 16-bit data transfer. Camera port pixel clock input. Aux3 data I/O 4.
152	HCS1FX# AUX37	Output Input/Output	Host select 1. Aux3 data I/O 7.
153	HCS3FX# AUX36	Output Input/Output	Host select 3. Aux3 data I/O 6.
154	HA0 AUX42	Input/Output Aux4 data I/O 2.	Host address bus.
155	HA1 AUX43	Input/Output Aux4 data I/O 3.	Host address bus.
156	VSS	Input	Ground.
157	VEE	Input	I/O power supply.
158	HA2 AUX44	Input/Output Aux4 data I/O 4.	Host address bus.
159	VEE	Input	I/O power supply.
160	AUX0	Input/Output	Auxiliary ports 0.
161	AUX1	Input/Output	Auxiliary ports 1.
162	AUX2 IOW#	Input/Output Output	Auxiliary ports 2. I/O write strobe.

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

IC106 92LRCI6028-001: Microcomputer (ES6028) (5/5)

Pin No.	Port Name	Input/Output	Function
163	VSS	Input	Ground.
164	VEE	Input	I/O power supply.
165	AUX3 IOR#	Input/Output Output	Auxiliary ports 3. I/O read strobe.
166	AUX4	Input/Output	Auxiliary ports 4.
167	AUX5	Input/Output	Auxiliary ports 5.
168	AUX6	Input/Output	Auxiliary ports 6.
169	AUX7	Input/Output	Auxiliary ports 7.
170	LOE#	Output	Device output enable.
171	VSS	Input	Ground.
172	VCC	Input	Core power supply.
173*	LCS0#	Output	Chip select 0.
174	LCS1#	Output	Chip select 1.
175	LCS2#	Output	Chip select 2.
176	LCS3#	Output	Chip select 3.
177	VSS	Input	Ground.
178-182	LD0-LD4	Input/Output	EPROM device data bus.
183	VEE	Input	I/O power supply.
184	VSS	Input	Ground.
185-191	LD5-LD11	Input/Output	EPROM device data bus.
192	VSS	Input	Ground.
193	VEE	Input	I/O power supply.
194-197	LD12-LD15	Input/Output	EPROM device data bus.
198	LWRLL#	Output	Device low-byte write enable.
199	LWRHL#	Output	Device high-byte write enable.
200	VSS	Input	Ground.
201	VEE	Input	I/O power supply.
202*	CAMIN0	Input	Camera YUV 0.
203*	CAMIN1	Input	Camera YUV 1.
204-207	LA0-LA3	Output	Device address output.
208	VSS	Input	Ground.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC106 92LRCI6028-001: Microcomputer (ES6028)

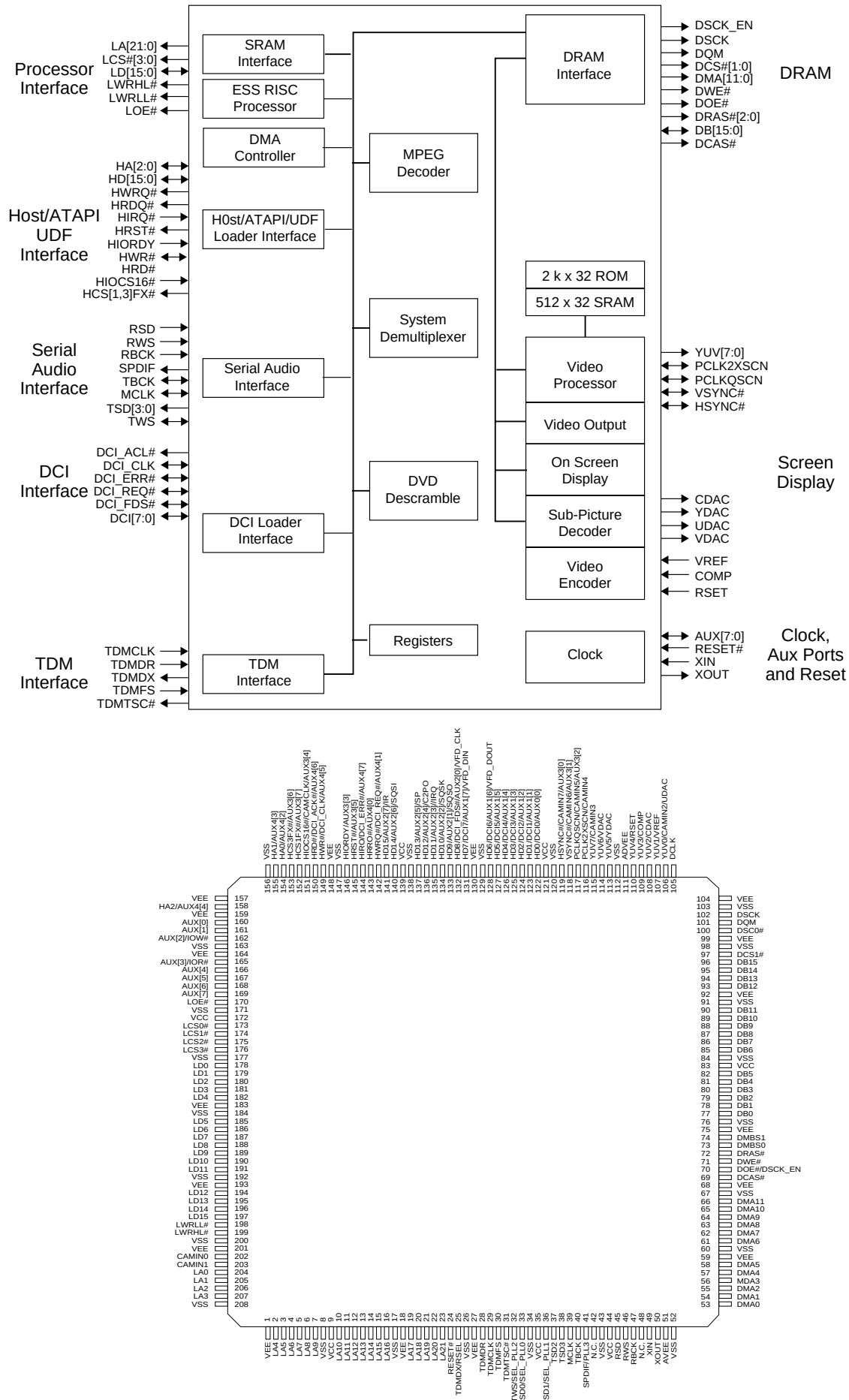


Figure 53 BLOCK DIAGRAM OF IC

IC803 92LRCI7866-001: DVD Front End (LC78663NRW)

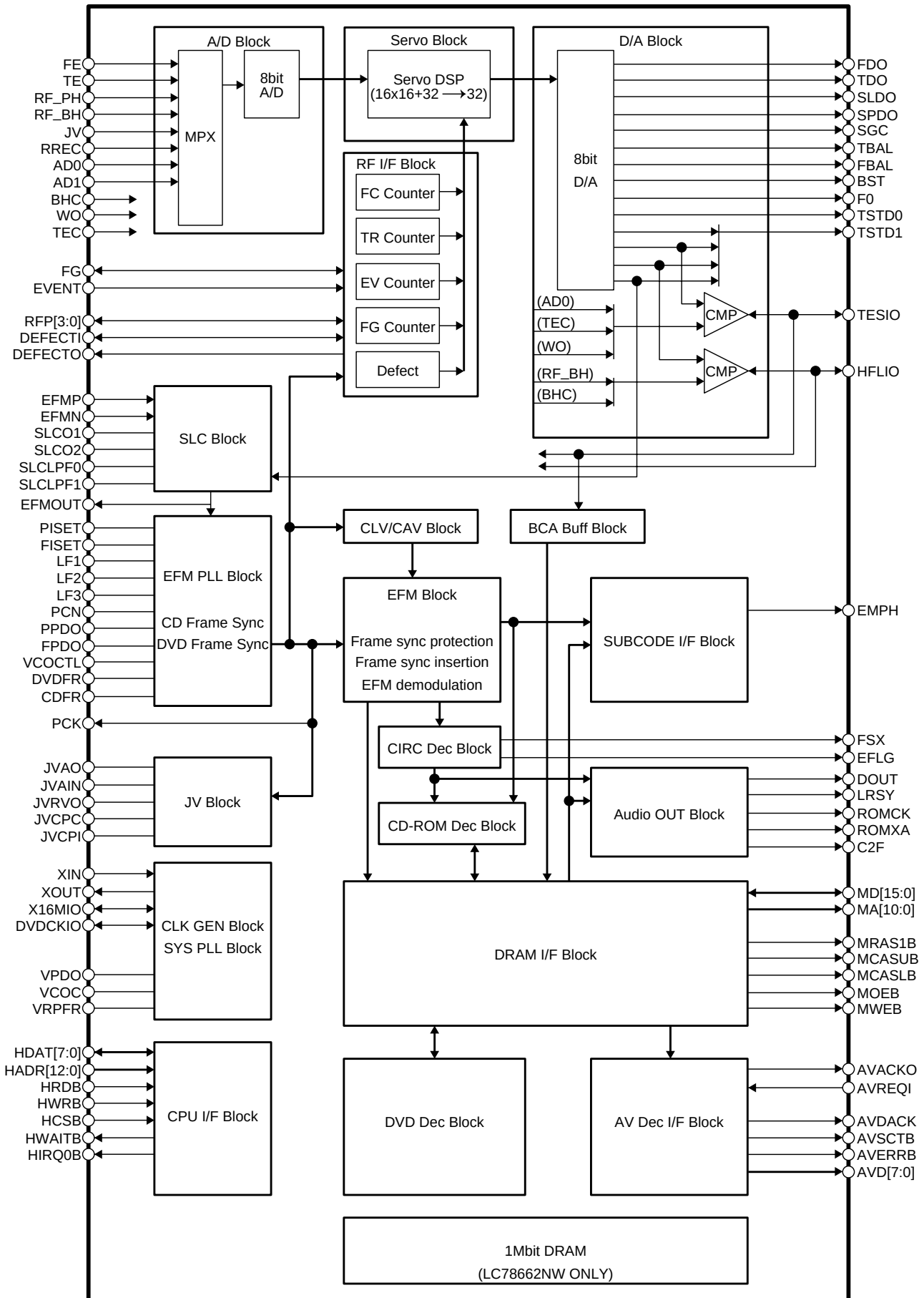


Figure 54 BLOCK DIAGRAM OF IC

IC803 92LRCI7866-001: DVD Front End (LC78663NRW) (1/4)

Pin No.	Port Name	Input/Output	Function
1	AD1	Input	Servo A/D converter. AD1
2	AD0	Input	Servo A/D converter. AD0
3	JV	Input	Servo A/D converter. JV
4	PREC	Input	Servo A/D converter. PREC
5	RF_PH	Input	Servo A/D converter. RF_PH
6	PF_BH	Input	Servo A/D converter. RF_BH
7	TE	Input	Servo A/D converter. TE
8	FE	Input	Servo A/D converter. FE
9	TEST0	Input	Test input 0. (Must be tied low during normal operation.)
10	EFMINP	Input	EFM/EFM+ input.
11	TEST1	Input	Test input 1. (Must be tied low during normal operation.)
12	EFMINN	Input	EFM- input.
13	SLCLPFO	—	SLC
14	SLCLPFI	—	SLC
15	SLCO1	—	SLC
16	SLCO2	—	SLC
17	AVDD1	Input	A/D, D/A converter, and SLC power supply. (Analog 3.3 V)
18	AVSS	—	Analog system ground.
19	BHC	Input	Comparator input. (Capacitor coupled to RF_BHH)
20*	WO	Input	Comparator input.
21	TEC	Input	Comparator input. (Capacitor coupled to TE)
22	VREF	Output	Servo D/A converter reference voltage.
23	TSTD1	Output	Servo D/A converter.
24	TSTD0	Output	Servo D/A converter: TSTD0
25	FO	Output	Servo D/A converter: FO
26	BST	Output	Servo D/A converter: BST
27	TBAL	Output	Servo D/A converter: TBAL
28	FBAL	Output	Servo D/A converter: FBAL
29	SGC	Output	Servo D/A converter: SGC
30	SLDO	Output	Servo D/A converter: SLDO
31	SPDO	Output	Servo D/A converter: SPDO
32	TDO	Output	Servo D/A converter: TDO
33	FDO	Output	Servo D/A converter: FDO
34	DVDDO	Input	Internal logic system power supply. (Digital 2.5 V)
35	DVSS	—	Digital system ground.
36	FG	Input/Output	FG counter input.
37	HIRQB	Output	Interrupt signal output.
38	HWAITB	Output	Wait signal output.
39	HRESB	Input	Servo reset input.
40	HRDB	Input	Read signal input.
41	HWRB	Input	Write signal input.
42	HCSB	Input	Chip select signal input.
43	HDAT0	Input/Output	Data bus 0.
44	DVDD1	Input	I/O system power supply. (Digital 3.3 V)
45	DVSS	—	Digital system ground.
46	HDAT1	Input/Output	Data bus 1.
47	HDAT2	Input/Output	Data bus 2.
48	HDAT3	Input/Output	Data bus 3.
49	HDAT4	Input/Output	Data bus 4.
50	HDAT5	Input/Output	Data bus 5.
51	HDAT6	Input/Output	Data bus 6.
52	HDAT7	Input/Output	Data bus 7.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

IC803 92LRCI7866-001: DVD Front End (LC78663NRW) (2/4)

Pin No.	Port Name	Input/Output	Function
53	HADR0	Input	Address 0.
54	HADR1	Input	Address 1.
55	HADR2	Input	Address 2.
56	HADR3	Input	Address 3.
57	HADR4	Input	Address 4.
58	HADR5	Input	Address 5.
59	HADR6	Input	Address 6.
60	MWEB	Output	WE output.
61	MRAS1B	Output	RAS output 1.
62	MA0	Output	DRAM address bus 0.
63	MA1	Output	DRAM address bus 1.
64	MA2	Output	DRAM address bus 2.
65	MA3	Output	DRAM address bus 3.
66	N.C.	—	No connect pin.
67	N.C.	—	No connect pin.
68	MA4	Output	DRAM address bus 4.
69	MA5	Output	DRAM address bus 5.
70	MA6	Output	DRAM address bus 6.
71	MA7	Output	DRAM address bus 7.
72	MA8	Output	DRAM address bus 8.
73*	MA9	Output	DRAM address bus 9.
74*	MA10	Output	DRAM address bus 10.
75	MOEB	Output	OE output.
76	MCASUB	Output	CAS output. (upper byte)
77	MCASLB	Output	CAS output. (lower byte)
78	HADR7	Input	Address 7.
79	HADR8	Input	Address 8.
80	HADR9	Input	Address 9.
81	HADR10	Input	Address 10.
82	HADR11	Input	Address 11.
83	HADR12	Input	Address 12.
84*	C2F	Output	C2 flag output.
85	ROMXA	Output	CD data output.
86	ROMCK	Output	CD data output shift clock output.
87	LRSY	Output	CD data output L/R clock output.
88	DVDD1	Input	I/O system power supply. (Digital 3.3 V)
89	DVSS	—	Digital system ground.
90	EMPH	Output	Deemphasis monitor.
91	AVREQI	Input	AV data request flag input.
92	AVACKO	Output	AV data read strobe output.
93	AVDACK	Output	AV data read output.
94	AVSCTB	Output	AV output sector synchronization output.
95	AVERRB	Output	AV data reliability flag output.
96	AVD0	Output	AV data bus 0.
97	AVD1	Output	AV data bus 1.
98	AVD2	Output	AV data bus 2.
99	AVD3	Output	AV data bus 3.
100	AVD4	Output	AV data bus 4.
101	AVD5	Output	AV data bus 5.
102	AVD6	Output	AV data bus 6.
103	AVD7	Output	AV data bus 7.
104*	EFMOUT	Output	EFM binarized signal output.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC803 92LRCI7866-001: DVD Front End (LC78663NRW) (3/4)

Pin No.	Port Name	Input/Output	Function
105*	PCK	Output	EFM playback signal shift clock output.
106	DVDD0	Input	Internal logic system power supply. (Digital 2.5 V)
107	DVSS	—	Digital system ground.
108	VCOCTL	—	VCO filter connection.
109	PPDO	—	Phase comparator filter connection.
110	FPDO	—	Frequency comparator filter connection.
111	LF1	—	Filter connection 1.
112	LF2	—	Filter connection 2.
113*	LF3	—	Filter connection 3.
114*	PCN	—	Voltage monitor. (Phase comparator charge pump PCH control voltage.)
115	PISET	—	Phase comparator constant current charge pump current setting.
116	FISET	—	Frequency comparator constant charge pump current setting.
117	CDFR	—	EFM data recovery PLL VCO oscillator range setting. (CD)
118	DVDFR	—	EFM data recovery PLL VCO oscillator range setting. (DVD)
119	AVDD2	Input	EFM PLL JV power supply. (Analog 3.3 V)
120	AVSS	—	Analog system ground.
121	JVCPI	—	JV
122	JVCPC	—	JV
123	JVAO	Output	EFM data recovery PLL clock jitter output.
124*	JVAIN	—	JV
125*	JVRVO	—	JV
126	AVDD3	Input	System PLL power supply. (Analog 2.5 V)
127	AVSS	—	Analog system ground.
128	VOPDO	—	System PLL filter connection.
129	VRPFR	—	System PLL VCO oscillator range setting.
130	VCOC	—	System PLL filter connection.
131	DVDD0	Input	Internal logic system power supply. (Digital 2.5 V)
132	DVSS	—	Digital system ground.
133	DVDD2	Input	Oscillator circuit power supply. (Digital 3.3 V)
134	XIN	Input	Oscillator circuit input.
135	XOUT	Output	Oscillator circuit output.
136	DVSS	—	Digital system ground.
137	X16MIO	Input/Output	External 16 MHz I/O.
138	TEST2	Input	Test input 2. (This input must be tied low.)
139*	DVDCKIO	Input/Output	Internal DVD clock I/O.
140*	FSX	Output	CD single frame sync signal.
141*	EFLG	Output	Error correction C1 and C2 correction state monitor.
142*	DOUT	Output	Audio EIAJ data output.
143	DVDD1	Input	I/O system power supply. (Digital 3.3 V)
144	DVSS	—	Digital system ground.
145	MD8	Input/Output	DRAM data bus 8.
146	MD9	Input/Output	DRAM data bus 9.
147	MD10	Input/Output	DRAM data bus 10.
148	MD11	Input/Output	DRAM data bus 11.
149	N.C.	—	No connect pin.
150	MD12	Input/Output	DRAM data bus 12.
151	MD13	Input/Output	DRAM data bus 13.
152	MD14	Input/Output	DRAM data bus 14.
153	MD15	Input/Output	DRAM data bus 15.
154	N.C.	—	No connect pin.
155	N.C.	—	No connect pin.
156	MD0	Input/Output	DRAM data bus 0.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

IC803 92LRCI7866-001: DVD Front End (LC78663NRW) (4/4)

Pin No.	Port Name	Input/Output	Function
157	MD1	Input/Output	DRAM data bus 1.
158	MD2	Input/Output	DRAM data bus 2.
159	MD3	Input/Output	DRAM data bus 3.
160	N.C.	—	No connect pin.
161	MD4	Input/Output	DRAM data bus 4.
162	MD5	Input/Output	DRAM data bus 5.
163	MD6	Input/Output	DRAM data bus 6.
164	MD7	Input/Output	DRAM data bus 7.
165	DVDD1	Input	I/O system power supply. (Digital 3.3 V)
166	DVSS	—	Digital system ground.
167	DEFECT1	Input/Output	Defect signal input.
168	DEFECT0	Output	Defect signal output.
169	RFP0	Input/Output	General -purpose RF I/O 0.
170	RFP1	Input/Output	General -purpose RF I/O 1.
171	RFP2	Input/Output	General -purpose RF I/O 2.
172	RFP3	Input/Output	General -purpose RF I/O 3.
173*	TEST0	Input/Output	Tracking error signal I/O.
174*	HFLI0	Input/Output	Mirror detection signal I/O.
175	DVDD0	Input	Internal logic system power supply. (Digital 2.5 V)
176	DVSS	—	Digital system ground.

DVDD0: 4 pins: Digital system 2.5 V power supply: Logic block

DVDD1: 4 pins: Digital system 3.3 V power supply: I/O pin power supply

DVDD2: 1 pins: Digital system 3.3 V power supply: Oscillator circuit power supply

AVDD1: 1 pins: Analog system 3.3 V power supply: A/D and D/A converters, SLC

AVDD2: 1 pins: Analog system 3.3 V power supply: EFM PLL and JV

AVDD3: 1 pins: Analog system 2.5 V power supply: System PLL

DVSS: 12 pins: Digital system ground

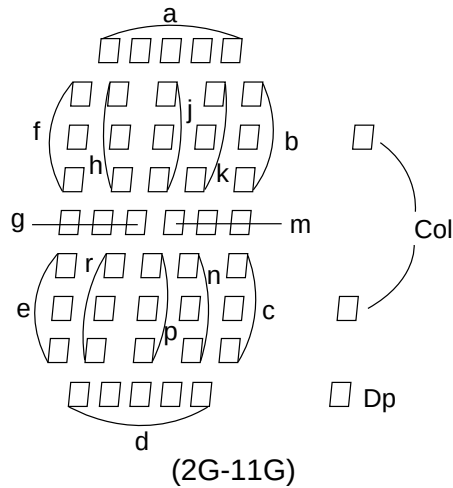
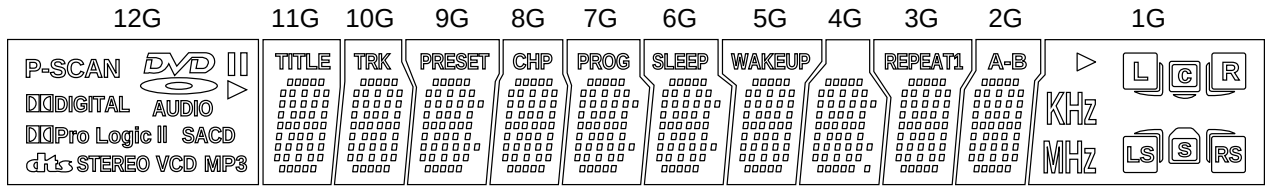
AVSS: 3 pins: Analog system ground

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

FL DISPLAY

DP301 92LKL0016-020

GRID ASSIGNMENT



ANODE CONNECTION

	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	P-SCAN	TITLE	TRK	PRESET	CHP	PROG	SLEEP	WAKE UP	Dp	REPEAT	A-	L
P2	DVD			Col		Col	Col		Col	1	B	C
P3	II	a	a	a	a	a	a	a	a	a	a	R
P4	▶	b	b	b	b	b	b	b	b	b	b	RS
P5	AUDIO	f	f	f	f	f	f	f	f	f	f	S
P6	DIGITAL	h	h	h	h	h	h	h	h	h	h	LS
P7	Pro Logic	j	j	j	j	j	j	j	j	j	j	▶
P8	(Pro Logic)II	k	k	k	k	k	k	k	k	k	k	KHz
P9	SACD	m	m	m	m	m	m	m	m	m	m	MHz
P10	MP3	g	g	g	g	g	g	g	g	g	g	
P11	CD	c	c	c	c	c	c	c	c	c	c	
P12	V	e	e	e	e	e	e	e	e	e	e	
P13	STEREO	r	r	r	r	r	r	r	r	r	r	
P14	Ⓢ	p	p	p	p	p	p	p	p	p	p	
P15		n	n	n	n	n	n	n	n	n	n	
P16		d	d	d	d	d	d	d	d	d	d	

PIN CONNECTION

PIN NO.	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	F2	F2	NP	NP	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NX	NX	NX	NX	NX	NX	NX	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F1	F1

* Note

- Fn : Filament pin
- nG : Grid pin
- Pn : Anode pin
- NP : No pin
- NX : No extended pin

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

— MEMO —

SHARP PARTS GUIDE

HOME CINEMA WITH DVD

MODEL HT-CN400DVH

HT-CN400DVH Home Cinema with DVD consisting of HT-CN400DVH (main unit), CP-CN400HF (front speakers), CP-CN400HC (center speaker), CP-CN400HR (surround speakers) and CP-CN400HSW.

HOME CINEMA WITH DVD

MODEL HT-CN500DVH

HT-CN500DVH Home Cinema with DVD consisting of HT-CN500DVH (main unit), CP-CN500HF (front speakers), CP-CN500HC (center speaker), CP-CN500HR (surround speakers) and CP-CN500HSW.

HOME CINEMA WITH DVD

MODEL HT-CN400DVE

HT-CN400DVE Home Cinema with DVD consisting of HT-CN400DVE (main unit), CP-CN400EF (front speakers), CP-CN400EC (center speaker), CP-CN400ER (surround speakers) and CP-CN400ESW.

HOME CINEMA WITH DVD

MODEL HT-CN500DVE

HT-CN500DVE Home Cinema with DVD consisting of HT-CN500DVE (main unit), CP-CN500EF (front speakers), CP-CN500EC (center speaker), CP-CN500ER (surround speakers) and CP-CN500ESW.

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VCK Ceramic type
VCT Semiconductor type
VC •• MF Cylindrical type (without lead wire)
VC •• MN Cylindrical type (without lead wire)
VC •• TV Square type (without lead wire)
VC •• TQ Square type (without lead wire)
VC •• CY Square type (without lead wire)
VC •• CZ Square type (without lead wire)
VC J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD Carbon-film type
VRS Carbon-film type
VRN Metal-film type
VR •• MF Cylindrical type (without lead wire)
VR •• MN Cylindrical type (without lead wire)
VR •• TV Square type (without lead wire)
VR •• TQ Square type (without lead wire)
VR •• CY Square type (without lead wire)
VR •• CZ Square type (without lead wire)
VR J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:

Parts marked with "△" are important for maintaining the safety of the set.

Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

NO.	PART CODE	★ PRICE RANK	DESCRIPTION
HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE			
INTEGRATED CIRCUITS			
IC001	92LRCI1837-001	J	IC 30 PIN LA1837
IC002	92LRCI7213-001	J	AM/FM EREQ.,LC72131M
IC003	92LRCI7272-002	J	IC 24 PIN LC72720NM
IC101	92LRCI3908-001	J	Multi-Purpose Flash, SST39VF080
IC102	92LRCI7437-003	J	IC 20 PIN 74F374D
IC103	92LRCI7437-002	J	IC 20 PIN 74HC374
IC104	92LRCI7415-002	J	Quad 2:1 Multiplexer, SN74F157A NS
IC105	92LRCI0809-003	J	IC 3 PIN IMP809SEUR-T SOT23 RESET2.93V
IC106	92LRCI6028-001	J	Microcomputer,ES6028
IC107	92LRCI2402-002	J	EEP Rom,AT24C02N-10SI-2.7
IC108	92LRCI7437-002	J	IC 20 PIN 74HC374
IC109	92LRCI0004-002	J	DRAM,4MX16Y3VTW
IC110	92LRCI8772-001	J	6CH D/A 2CH A/D,WM8772
IC114	92LRCI9164-001	J	IC 3 PIN RT9164-33CLR
IC115	92LRCI1117-005	J	Voltage Regulator,B1117N-2.85
IC301	92LRCI6311-002	J	IC 52 PIN VDTR6311A FL DRIVER
IC302	92LRCI0809-003	J	IC 3 PIN IMP809SEUR-T SOT23 RESET
IC401~404	92LRCI4558-003	J	IC 8PIN TEXAS RC4558D SOP8
IC405	92LRCI4052-001	J	4CH Multiplexer,TC4052BFN
IC406	92LRCI4558-003	J	IC 8PIN TEXAS RC4558D SOP8
IC500~502	92LRCI0505-001	J	Power AMP. STA505 50Wx2
IC503	92LRCI0308-001	J	Audio Processor,STA308
IC602	92LRHI7808-001	J	Regulator,L7808
IC603,604	92LRHI7805-401	J	IC 3 PIN BA05T TO220FP ROHM
IC605	92LRCI1117-005	J	Voltage Regulator,B1117N-2.85
IC608	92LRCI2259-001	J	VOLUME CONTROL PT2259 SOP8 PTC
IC609	92LRCI5228-001	J	IC 8PIN TP5228 SOP-8 DRIVER W/MUTE
IC801	92LRCI6560-001	J	Motor Driver,LA6560
IC802	92LRCI9703-001	J	DVD Players RF Amp.,LA9703W
IC803	92LRCI7866-001	J	DVD Front End,LC78663NRW
IC804	92LRCI4116-001	J	DRAM,IC411LV16256-35T
IC807	92LRCI7432-005	J	Quad 2-1/P OR Gate, SN74LVC32ANS
IC808	92LRCI7414-006	J	Inverter,SN74HC14NS
IC809	92LRCI0358-001	J	Low Power Dual Ope Amp., LM358MX NS
IC810	92LRCI9164-001	J	IC 3 PIN RT9164-33CLR
IC903	92LRHI0249-001	J	IC 6 PIN TOP249 250W Power Switch
IC904	92LRHI0431-001	J	IC 3 PIN TL431 Voltage Regulator
IC905	92LRHI1050-001	J	IC NCP1050DIP SWITCH REGULATOR
TRANSISTORS			
Q001	92LRAM0192-001	J	FET 2SK192A-Y/GR
Q002,003	92LRCN1009-001	J	XISTR NPN 2SC1009A FA4 SOT23 NEC AM/FM
Q004	92LRCP0812-001	J	XISTR PNP 2SA812 hfe:200~400
Q005,006	92LRCN1623-001	J	XISTR NPN HFE:200-400 L6 2SC1623
Q101~103	92LRCN1623-001	J	XISTR NPN HFE:200-400 L6 2SC1623
Q104	92LRCP0812-001	J	XISTR PNP 2SA812 hfe:200~400
Q105	92LRCN1623-001	J	XISTR NPN HFE:200-400 L6 2SC1623
Q106	92LRCP0812-001	J	XISTR PNP 2SA812 hfe:200~400
Q108	92LRCN1623-001	J	XISTR NPN HFE:200-400 L6 2SC1623
Q301	92LRCN1623-001	J	XISTR NPN HFE:200-400 L6 2SC1623
Q302,303	92LRCP5051-001	J	XISTR PNP CM5051-O SOT23 HFE:70-140
Q401	92LRCP0812-001	J	XISTR PNP 2SA812 hfe:200~400

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
Q402,403	92LRCN5783-001	J	XISTR NPN CM5783GR SOT23 HFE:200-400
Q601	92LRCP0812-001	J	XISTR PNP 2SA812 hfe:200~400
Q602,603	92LRCN1623-001	J	XISTR NPN HFE:200-400 L6 2SC1623
Q604	92LRCP0812-001	J	XISTR PNP 2SA812 hfe:200~400
Q605~607	92LRCN1623-001	J	XISTR NPN HFE:200-400 L6 2SC1623
Q801,802	92LRCP5051-001	J	XISTR PNP CM5051-O SOT23 HFE:70-140
Q803~806	92LRCN5783-001	J	XISTR NPN CM5783GR SOT23 HFE:200-400
Q903A	92LRCN1623-001	J	XISTR NPN HFE:200-400 L6 2SC1623
Q903B	92LRAN2222-001	J	XISTR NPN PN2222A FAIRCHILD
Q904A	92LRCN0114-001	J	XISTR NPN DDTC114ECA SOT23 50mA
Q904B	92LRHN0122-001	J	XISTR NPN TIP122 TO-220 SGS-TH
Q913	92LRAN2001-001	J	XISTR NPN 2SC2001L NEC
DIODES			
△ BR901	92LRHD0802-008	J	BRIDGE KBU808 8A 800V UL
D001~004	92LRCD4148-101	J	DIODE CHIP BAV16W/IN4148W (SKYWELL)
D005	92LRAD4148-001	J	DIODE SW 1N4148
D301~303	92LRAD4148-001	J	DIODE SW 1N4148
D401	92LRCD4148-101	J	DIODE CHIP BAV16W/IN4148W (SKYWELL)
D601~603	92LRCD4148-101	J	DIODE CHIP BAV16W/IN4148W (SKYWELL)
D604	92LRAD4001-001	J	DIODE RECTIFIER 1N4001
D607~610	92LRCD4148-101	J	DIODE CHIP BAV16W/IN4148W (SKYWELL)
D801	92LRCD4148-101	J	DIODE CHIP BAV16W/IN4148W (SKYWELL)
D901A	92LRCD4148-101	J	DIODE CHIP BAV16W/IN4148W (SKYWELL)
D901B	92LRAD0026-001	J	DIODE BYV26D PHILIPS
△ D902	92LRAD4148-001	J	DIODE SW 1N4148
D904	92LRAD4148-001	J	DIODE SW 1N4148
D905	92LRHD1620-001	J	BRIDGE MUR1620CT 8A 200V
D906	92LRAD5822-001	J	DIODE RECT 1N5822 3A 45V
D907	92LRAD0204-001	J	DIODE HER204 2A 300V 50nS
D908	92LRAD1104-010	J	DIODE HER104 1A 300V 50nS
D911~914	92LRAD4007-001	J	DIODE 1N4007
D915	92LRAD1147-020	J	DIODE UF4007 FAST RECOVERY
D916	92LRAD0103-002	J	DIODE FR103 1A 200V
ESD1,2	92LRCD4148-101	J	DIODE CHIP BAV16W/IN4148W (SKYWELL)
LD301	92LKER0002-001	J	LED 2 DIA RED ROUND
ZD1,2	92LRAZ0859-084	J	DIODE ZENR 14.5-15.1V 0.5W
ZD101~108	92LRCZ5007-021	J	CHIP ZENER 7.5V 5% 0.5W (F1) SOD-123,MMSZ5236B
ZD109	92LRCZ5006-011	J	CHIP ZENER 5.6V 5% 0.5W (E2) SOD-123,MMSZ5232B
ZD301	92LRAZ0859-071	J	DIODE ZENR 6.0-6.3V 0.5W,HZ301
ZD401,402	92LRCZ5006-011	J	CHIP ZENER 5.6V 5% 0.5W (E2) SOD-123,MMSZ5232B
ZD602	92LRAZ0859-081	J	DIODE ZENR 11.9-12.4V 0.5W,HZ12A
ZD605	92LRCZ5006-011	J	CHIP ZENER 5.6V 5% 0.5W (E2) SOD-123,MMSZ5232B
ZD901	92LRAD0200-001	J	DIODE P6KE200A
ZD902	92LRAZ0859-070	J	DIODE ZENR 5.6-5.9V 0.5W
ZD903	92LRAZ0859-073	J	DIODE ZENR 6.9-7.2V 0.5W
ZD904	92LRAZ0859-064	J	DIODE ZENR 3.8-4.0V 0.5W
ZD907	92LRAZ0859-089	J	DIODE ZENR 23.6-24.7V 0.5W
FILTERS			
CF001,002	92LJFR7047-012	J	CER FILTER 10.7 MHZ
CF003	92LJFR6067-003	J	CER FILTER 450 KHZ

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

NO.	PART CODE	★ PRICE RANK	DESCRIPTION
TRANSFORMERS			
T001	92LSHV8474-001	J	OSC FM SUMIDA S-8N
T002	92LSHV0491-101	J	ANT OSC AM 4-6:10T 1-3:86T
T003	92LSHV2020-201	J	OSC COIL 108uH (796 KHz) COIL
T004	92LSHV1492-003	J	BIAS COIL 78 KHz
T005,006	92LSHV1492-004	J	BIAS COIL 16 KHz
T007	92LSHI9725-059	J	FM IFT 10.7MHz Q=60 MIN
T008	92LSHI9724-063	J	AM IFT 455KHz Q=130
△ T903	92LTSCT2002-020	J	TRANSFORMER 42/42
△ T904	92LTSCT2001-010	J	PWR TRANS.EE16/14

COILS

FB101,102	92LSLF0201-006	J	BEAD FERIT DIA3.5x6mm
FB103,104	92LSCF0805-601	J	CHIP BEAD 600 OHM AT 100MHz
FB111~113	92LSCF0805-601	J	CHIP BEAD 600 OHM AT 100MHz
FB114	92LSLF0201-006	J	BEAD FERIT DIA3.5x6mm
FB115	92LSLF0201-006	J	BEAD FERIT DIA3.5x6mm
FB116	92LSCF0805-601	J	CHIP BEAD 600 OHM AT 100MHz
FB121	92LSCF0805-601	J	CHIP BEAD 600 OHM AT 100MHz
FB600	92LSLF0201-006	J	BEAD FERIT DIA3.5x6mm
FB901,902	92LSCF0805-601	J	CHIP BEAD 600 OHM AT 100MHz
FB903,904	92LSLF0201-006	J	BEAD FERIT DIA3.5x6mm
L001	92LSAC7414-100	J	CHOKE 10 uH 10%
L002	92LSIL0603C393	J	COIL 39 mH 10% D6xH11xP5mm
L003	92LSAC7414-100	J	CHOKE 10 uH 10%
L007	92LSAC7414-100	J	CHOKE 10 uH 10%
L103~106	92LSCC0805-249	J	CHIP INDUC 2.4 uH 5% SMD 0805
L500~507	92LSIN0202-300	J	INDUCTOR 30uH 15% 1KHZ 0.25V 2A
L508~513	92LSIL0201C200	J	COMMON MODE CHOKE COIL 20uH D0.5mm 4PIN
L514,515	92LSCF0805-601	J	CHIP BEAD 600 OHM AT 100MHz
L516~519	92LSIN0202-300	J	INDUCTOR 30uH 15% 1KHZ 0.25V 2A
L602,603	92LSCC0805-100	J	CHIP INDUC 10 uH 10% SMD 0805
L801,802	92LSCF0805-601	J	CHIP BEAD 600 OHM AT 100MHz
L901	92LSIL1061-609	J	INDUCTOR 6uH 10.5Ts 6A
L902,903	92LSIL1062-609	J	INDUCTOR 6uH 13.5Ts 2UEW
L904	92LSIL2061-100	J	OOIL 10uH 1.5A 10% 1KHZ/0.3V D0.3mm
△ T901	92LJFT2011-010	J	LINE FILTER ET24

VARIABLE CAPACITORS

TC001	92LMCT0510-006	J	COND TRIM 3 - 10 PF NP0
TC002	92LMCT0520-005	J	COND TRIM 4.2 - 20 PF N450
VD001,002	92LRHT6066-011	J	DIODE TUNG AM TOSHIBA 1SV149B

VIBRATORS

XL001	92LJQC6070-450	J	CRYSTAL 4.5000 MHz HC-49/U 30PPM
XL002	92LJQC6070-433	J	CRYSTAL 4.332 MHZ HC-49/U 30PPM
XL101	92LJQC0391-270	J	CRYSTAL 27.0000MHz HC- 49US +/-20ppm
XL301	92LJRN6078-004	J	RESONATOR MURATA CSB 455EB
XL801	92LJQC6070-169	J	CRYSTAL 16.9344MHz HC-49u +/-20ppm

THERMISTOR

SN601	92LRNT0050-103	J	NTC 10K OHM 5%PA-5D-103J
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ARRAY PARTS

RA101,102	92LQCP0158-330	J	RES ARRAY 33 OHMx4 1/10W 5%
RA104~106	92LQCP0158-100	J	RES ARRAY 10 OHMx4 1/10W 5%
RA117,118	92LQCP0158-472	J	RES ARRAY 4x4.7K 1/10W 5%
RA801~803	92LQCP0158-100	J	RES ARRAY 10 OHMx4 1/10W 5%

CAPACITORS

C001	92LPCX1035-330	J	CHIP CAP 33 pF 50V 5%
C003	92LPCX1035-509	J	CHIP CAP 5 pF 50V 5%
C004	92LPCX5645-223	J	CHIP CAP 0.022 uF 50V 10%
C006,007	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C008~011	92LPCX5645-223	J	CHIP CAP 0.022 uF 50V 10%
C012	92LPME3954-470	J	COND ELECT 47 uF 16V 20%
C013	92LPCX1035-509	J	CHIP CAP 5 pF 50V 5%
C014	92LPCX1035-561	J	CHIP CAP 560 pF 50V 5%
C016	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C017	92LPCX5645-223	J	CHIP CAP 0.022 uF 50V 10%
C018	92LPRE3952-330	J	COND ELECT 33 uF 16 V 20%
C019	92LPCX5645-223	J	CHIP CAP 0.022 uF 50V 10%
C020	92LPRE3952-330	J	COND ELECT 33 uF 16 V 20%
C021	92LPME3954-220	J	COND ELECT 22 uF 16V 20%
C022	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C023	92LPME3955-100	J	COND ELECT 10 uF 50V 20%
C024	92LPCX1035-221	J	CHIP CAP 220 pF 50V 5%
C025	92LPCX1035-300	J	CHIP CAP 30 pF 50V 5%
C026	92LPCX5645-473	J	CHIP CAP 0.047 uF 50V 10%
C027	92LPME3954-470	J	COND ELECT 47 uF 16V 20%
C028	92LPCX5632-273	J	CHIP CAP 0.027 uF 16V 5%
C029	92LPCX5645-473	J	CHIP CAP 0.047 uF 50V 10%
C030	92LPCX5645-223	J	CHIP CAP 0.022 uF 50V 10%
C031	92LPME3954-470	J	COND ELECT 47 uF 16V 20%
C032	92LPCX3955-105	J	CHIP CAP 1uF 50V 20%
C033	92LPCX5645-223	J	CHIP CAP 0.022 uF 50V 10%
C034	92LPCX1035-220	J	CHIP CAP 22 pF 50V 5%
C036	92LPCX5645-223	J	CHIP CAP 0.022 uF 50V 10%
C037	92LPCX3955-105	J	CHIP CAP 1uF 50V 20%
C038	92LPCX3962-474	J	CHIP CAP 0.47 uF 16V +80%- 20%
C039,040	92LPME3955-100	J	COND ELECT 10 uF 50V 20%
C041	92LPCX3955-105	J	CHIP CAP 1uF 50V 20%
C042,043	92LPCX5645-222	J	CHIP CAP 0.0022 uF 50V 10%
C044,045	92LPCX5645-472	J	CHIP CAP 0.0047uF 50V 10%
C046,047	92LPCX5645-223	J	CHIP CAP 0.022 uF 50V 10%
C048,049	92LPCX5645-152	J	CHIP CAP 0.0015 uF 50V 10%
C050	92LPCX5645-153	J	CHIP CAP 0.015 uF 50V 10%
C051	92LPME3957-479	J	COND ELECT 4.7 uF 50V 20%
C052	92LPCX5645-153	J	CHIP CAP 0.015 uF 50V 10%
C053	92LPME3957-479	J	COND ELECT 4.7 uF 50V 20%
C054	92LPCX5645-472	J	CHIP CAP 0.0047uF 50V 10%
C055	92LPCX5645-472	J	CHIP CAP 0.0047uF 50V 10%
C056	92LPME3954-470	J	COND ELECT 47 uF 16V 20%
C057,058	92LPCX1035-150	J	CHIP CAP 15 pF 50V 5%
C059	92LPCX1035-101	J	CHIP CAP 100 pF 50V 5%
C060	92LPCX5645-223	J	CHIP CAP 0.022 uF 50V 10%
C061	92LPME3954-470	J	COND ELECT 47 uF 16V 20%
C062	92LPME3957-339	J	COND ELECT 3.3 uF 50V 20%
C063	92LPCX5645-223	J	CHIP CAP 0.022 uF 50V 10%
C064	92LPME3954-470	J	COND ELECT 47 uF 16V 20%
C065	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C066	92LPCX1035-102	J	CHIP CAP 1000 pF 50V 5%
C067,068	92LPCX1035-220	J	CHIP CAP 22 pF 50V 5%
C069	92LPME3954-470	J	COND ELECT 47 uF 16V 20%
C070	92LPCX1035-561	J	CHIP CAP 560 pF 50V 5%
C071	92LPME3954-470	J	COND ELECT 47 uF 16V 20%
C072	92LPME3955-100	J	COND ELECT 10 uF 50V 20%
C073,074	92LPCX5645-223	J	CHIP CAP 0.022 uF 50V 10%
C075	92LPCX1035-331	J	CHIP CAP 330 pF 50V 5%
C076,077	92LPCX5645-223	J	CHIP CAP 0.022 uF 50V 10%
C1	92LPRL4855-105	J	COND MULTI 1 uF 50V 20%
C41,42	92LPME3955-100	J	COND ELECT 10 uF 50V 20%
C81	92LPCX1035-221	J	CHIP CAP 220 pF 50V 5%
C100	92LPCX1035-100	J	CHIP CAP 10 pF 50V 5%
C101	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C102	92LPME3955-100	J	COND ELECT 10 uF 50V 20%
C103~107	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C108	92LPME3955-100	J	COND ELECT 10 uF 50V 20%

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

NO.	PART CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
C109~134	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C571	92LPCV5645-471	J	CHIP CAP 470 pF 50V 10% [HT-CN500DVH/HT-CN500DVE]
C135	92LPME3955-100	J	COND ELECT 10 uF 50V 20%	C572~577	92LPCV3965-474	J	CHIP CAP 0.47 uF 50V +80-20% [HT-CN400DVH/HT-CN400DVE]
C136,137	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C572~577	92LPCV3965-684	J	CHIP CAP 0.68 uF 50V [HT-CN500DVH/HT-CN500DVE]
C138	92LPME3955-100	J	COND ELECT 10 uF 50V 20%	C578~589	92LPCX1035-102	J	CHIP CAP 1000 pF 50V 5%
C139	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C590,591	92LPCX1035-102	J	CHIP CAP 1000 pF 50V 5%
C140,141	92LPCX1035-220	J	CHIP CAP 22 pF 50V 5%	C592,593	92LPMA3955-229	J	COND ELECT 2.2uF 50V 20% 85' P=2.5mm
C142	92LPCX1035-102	J	CHIP CAP 1000 pF 50V 5%	C594~598	92LPCV5645-331	J	CHIP CAP 330 pF 50V 10% [HT-CN400DVH/HT-CN400DVE]
C143~150	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C594~598	92LPCV5645-471	J	CHIP CAP 470 pF 50V 10% [HT-CN500DVH/HT-CN500DVE]
C151	92LPME3955-100	J	COND ELECT 10 uF 50V 20%	C599	92LPCX1035-470	J	CHIP CAP 47 pF 50V 5%
C152	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C600	92LPCX5645-122	J	CHIP CAP ;0.0012 uF 50V 10%
C153	92LPME3955-100	J	COND ELECT 10 uF 50V 20%	C601,602	92LPCX1035-101	J	CHIP CAP 100 pF 50V 5%
C154	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C603	92LPME3954-220	J	COND ELECT 22 uF 16V 20%
C155	92LPME3955-100	J	COND ELECT 10 uF 50V 20%	C612	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C156	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C615~626	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C157	92LPME3955-100	J	COND ELECT 10 uF 50V 20%	C627~632	92LPME3954-101	J	COND ELECT 100 uF 16V 20%
C158~161	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C633	92LPME3955-100	J	COND ELECT 10 uF 50V 20%
C162~164	92LPCX1035-330	J	CHIP CAP 33 pF 50V 5%	C634	92LPME3954-220	J	COND ELECT 22 uF 16V 20%
C174~181	92LPCX1035-471	J	CHIP CAP 470 pF 50V 5%	C635,636	92LPRE3952-221	J	COND ELECT 220 uF 16 V 20%
C182,183	92LPME3955-100	J	COND ELECT 10 uF 50V 20%	C637,638	92LPME3954-101	J	COND ELECT 100 uF 16V 20%
C194~196	92LPCX1035-470	J	CHIP CAP 47 pF 50V 5%	C640~644	92LPME3954-101	J	COND ELECT 100 uF 16V 20%
C197,198	92LPME3954-101	J	COND ELECT 100 uF 16V 20%	C645~647	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C199	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C648	92LPRE3955-101	J	COND ELECT 100uF 50V 20%
C224	92LPME3955-100	J	COND ELECT 10 uF 50V 20%	C649~651	92LPCX1035-330	J	CHIP CAP 33 pF 50V 5%
C301~303	92LPCX1035-102	J	CHIP CAP 1000 pF 50V 5%	C655,656	92LPCX1035-330	J	CHIP CAP 33 pF 50V 5%
C304,305	92LPCX5645-104	J	CHIP CAP 0.1 uF 50V 10%	C658	92LPCX1035-330	J	CHIP CAP 33 pF 50V 5%
C306,307	92LPRA3952-101	J	COND ELECT 100 uF 16V 20%	C659	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C309	92LPCX1035-221	J	CHIP CAP 220 pF 50V 5%	C660,661	92LPME3955-100	J	COND ELECT 10 uF 50V 20%
C310,311	92LPCX1035-151	J	CHIP CAP 150 pF 50V 5%	C662	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C312~314	92LPCX1035-150	J	CHIP CAP 15 pF 50V 5%	C664~666	92LPCX1035-330	J	CHIP CAP 33 pF 50V 5%
C401~406	92LPME3955-100	J	COND ELECT 10 uF 50V 20%	C677,678	92LPCX1035-330	J	CHIP CAP 33 pF 50V 5%
C407,408	92LPCX5645-103	J	CHIP CAP 0.01 uF 50V 10%	C688~694	92LPCX1035-330	J	CHIP CAP 33 pF 50V 5%
C409	92LPCX1035-151	J	CHIP CAP 150 pF 50V 5%	C696~700	92LPME3955-100	J	COND ELECT 10 uF 50V 20%
C410	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C701	92LPME3957-479	J	COND ELECT 4.7 uF 50V 20%
C411,412	92LPCX5645-103	J	CHIP CAP 0.01 uF 50V 10%	C702,703	92LPME3955-100	J	COND ELECT 10 uF 50V 20%
C413	92LPCX1035-151	J	CHIP CAP 150 pF 50V 5%	C800	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C414	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C803	92LPME3954-470	J	COND ELECT 47 uF 16V 20%
C415,416	92LPCX5645-103	J	CHIP CAP 0.01 uF 50V 10%	C805	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C417	92LPCX1035-151	J	CHIP CAP 150 pF 50V 5%	C809	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C418	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C810	92LPME3954-470	J	COND ELECT 47 uF 16V 20%
C419,420	92LPCX5645-103	J	CHIP CAP 0.01 uF 50V 10%	C812	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C421	92LPCX1035-151	J	CHIP CAP 150 pF 50V 5%	C813	92LPME3954-470	J	COND ELECT 47 uF 16V 20%
C422	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C814	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C423,424	92LPCX5645-103	J	CHIP CAP 0.01 uF 50V 10%	C815	92LPME3954-470	J	COND ELECT 47 uF 16V 20%
C425	92LPCX1035-151	J	CHIP CAP 150 pF 50V 5%	C816	92LPCX1035-102	J	CHIP CAP 1000 pF 50V 5%
C426	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C817	92LPME3955-100	J	COND ELECT 10 uF 50V 20%
C427,428	92LPCX5645-103	J	CHIP CAP 0.01 uF 50V 10%	C818	92LPCX1035-102	J	CHIP CAP 1000 pF 50V 5%
C429	92LPCX5645-332	J	CHIP CAP 0.0033 uF 50V 10%	C819	92LPME3955-100	J	COND ELECT 10 uF 50V 20%
C430,431	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C820	92LPCX1035-102	J	CHIP CAP 1000 pF 50V 5%
C432~437	92LPME3955-100	J	COND ELECT 10 uF 50V 20%	C821~824	92LPCX1035-560	J	CHIP CAP 56 pF 50V 5%
C438	92LPCX1035-470	J	CHIP CAP 47 pF 50V 5%	C825	92LPCX1035-101	J	CHIP CAP 100 pF 50V 5%
C439	92LPME3955-100	J	COND ELECT 10 uF 50V 20%	C826	92LPCX5645-472	J	CHIP CAP 0.0047uF 50V 10%
C440	92LPCX1035-470	J	CHIP CAP 47 pF 50V 5%	C827	92LPCX5645-473	J	CHIP CAP 0.047 uF 50V 10%
C441	92LPME3955-100	J	COND ELECT 10 uF 50V 20%	C828	92LPCX3955-105	J	CHIP CAP 1uF 50V 20%
C442~445	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C829,830	92LPCX5645-472	J	CHIP CAP 0.0047uF 50V 10%
C446~451	92LPCX1035-101	J	CHIP CAP 100 pF 50V 5%	C831	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C452	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C832	92LPME3954-470	J	COND ELECT 47 uF 16V 20%
C453	92LPME3954-101	J	COND ELECT 100 uF 16V 20%	C833	92LPCX1035-471	J	CHIP CAP 470 pF 50V 5%
C454	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C834	92LPCX3955-105	J	CHIP CAP 1uF 50V 20%
C455	92LPME3954-101	J	COND ELECT 100 uF 16V 20%	C835	92LPME3954-101	J	COND ELECT 100 uF 16V 20%
C456,457	92LPME3955-100	J	COND ELECT 10 uF 50V 20%	C836	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C458	92LPCX1035-470	J	CHIP CAP 47 pF 50V 5%	C837	92LPME3954-101	J	COND ELECT 100 uF 16V 20%
C459	92LPME3955-100	J	COND ELECT 10 uF 50V 20%	C838	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C460	92LPCX1035-470	J	CHIP CAP 47 pF 50V 5%	C839	92LPCX1085-309	J	CHIP CAP 3 pF 50V +/-0.25 pF
C461	92LPME3955-100	J	COND ELECT 10 uF 50V 20%	C840	92LPCX1035-560	J	CHIP CAP 56 pF 50V 5%
C462,463	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C843	92LPCX1035-560	J	CHIP CAP 56 pF 50V 5%
C500~502	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C844	92LPCX1035-102	J	CHIP CAP 1000 pF 50V 5%
C503	92LPCV5645-104	J	CHIP CAP 0.1uF 50V 10%	C845	92LPCX5645-152	J	CHIP CAP 0.0015 uF 50V 10%
C504~509	92LPCV5653-105	J	CHIP MULT 1uF 25V 20% 1206	C846	92LPCX1035-561	J	CHIP CAP 560 pF 50V 5%
C510~528	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C847	92LPCX1035-102	J	CHIP CAP 1000 pF 50V 5%
C529~531	92LPCV5645-104	J	CHIP CAP 0.1uF 50V 10%	C848	92LPCX1035-561	J	CHIP CAP 560 pF 50V 5%
C532~541	92LPCV5653-105	J	CHIP MULT 1uF 25V 20% 1206	C849,850	92LPCX1035-471	J	CHIP CAP 470 pF 50V 5%
C543~551	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%				
C552,553	92LPCV5645-104	J	CHIP CAP 0.1uF 50V 10%				
C554~561	92LPCV5653-105	J	CHIP MULT 1uF 25V 20% 1206				
C562~564	92LPDE3957-102	J	COND ELECT 1000uF 50V 20% 85'C MINI SIZE				
C565~570	92LPMA3955-109	J	COND ELECT 1uF 50V 20% 85' MIN/SIZE				
C571	92LPCV5645-331	J	CHIP CAP 330 pF 50V 10% [HT-CN400DVH/HT-CN400DVE]				

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

NO.	PART CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
C851	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C962	92LPRD4965-104	J	COND DISC 0.1 uF 50V +80-20%
C854~856	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	△ C963,964	92LPVY1705-222	J	COND SAFETY 0.0022UF 250V 20% Y1 Y5U
C858,859	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	△ C965~967	92LPRD2355-102	J	COND DISC 0.001uF 1KV 20%
C860	92LPCX5645-103	J	CHIP CAP 0.01 uF 50V 10%	C968	92LPVY1705-222	J	COND SAFETY 0.0022UF 250V 20% Y1 Y5U
C861	92LPCX1035-561	J	CHIP CAP 560 pF 50V 5%	C969	92LPRD3545-103	J	COND DISC 0.01 uF 50V 10%
C862,863	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C970	92LPRD4965-104	J	COND DISC 0.1 uF 50V +80-20%
C864	92LPCX1035-101	J	CHIP CAP 100 pF 50V 5%	C971	92LPRE3955-109	J	COND ELECT 1uF 50V 20%
C865,866	92LPCX1035-100	J	CHIP CAP 10 pF 50V 5%	C972	92LPRE3955-100	J	COND ELECT 10 uF 50V 20%
C867	92LPME3954-470	J	COND ELECT 47 uF 16V 20%	C1000	92LPME3955-100	J	COND ELECT 10 uF 50V 20%
C874~884	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C1001	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C885	92LPME3954-470	J	COND ELECT 47 uF 16V 20%	C1002,1003	92LPME3955-100	J	COND ELECT 10 uF 50V 20%
C887	92LPME3954-470	J	COND ELECT 47 uF 16V 20%	C1004	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C888~891	92LPCX1035-209	J	CHIP CAP 2 pF 50V 5%	C1005	92LPME3955-100	J	COND ELECT 10 uF 50V 20%
C892	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C1006~1008	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%
C893	92LPCX1035-102	J	CHIP CAP 1000 pF 50V 5%	C1009~1011	92LPCX1035-220	J	CHIP CAP 22 pF 50V 5%
C894	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	C1021	92LPCX1035-102	J	CHIP CAP 1000 pF 50V 5%
C895	92LPCX5645-103	J	CHIP CAP 0.01 uF 50V 10%				
C896	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%				
C897	92LPCX1035-151	J	CHIP CAP 150 pF 50V 5%				
C898	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%				
C899	92LPCX1035-151	J	CHIP CAP 150 pF 50V 5%				
△ C901,902	92LPVS2705-224	J	COND SAFETY 0.22uF 275V X2P 20%				
△ C903,904	92LPJE995C-221	J	COND ELECT 220 uF 200V 20% 105C				
△ C905,906	92LPVY1705-222	J	COND SAFETY 0.0022UF 250V 20% Y1 Y5U	R001	92LAI20870-022	J	WIRE BARE 22 GA TINNED
△ C907	92LPRD2355-103	J	COND DISC 0.01uF1KV 20%		92LQCF6A53-682	J	CHIP RES. 6.8K OHM 1/16 W 5%
△ C908	92LPRD5564-471	J	COND DISC 470 pF 1KV 10% 125°C	R002,003	92LQCF6A53-104	J	CHIP RES. 100K OHM 1/16 W 5%
△ C909	92LPVY1705-222	J	COND SAFETY 0.0022UF 250V 20% Y1 Y5U	R004	92LQAF0650-102	J	RESISTOR 1K OHM 1/6 W 5% CF
△ C910	92LPRD2355-102	J	COND DISC 0.001uF 1KV 20%	R005	92LQAF0650-101	J	RESISTOR 100 OHM 1/6 W 5% CF
C911	92LPRL4855-105	J	COND MULTI 1 uF 50V 20%	R006	92LQCF6A53-101	J	CHIP RES. 100 OHM 1/16 W 5%
C912	92LPRD4965-104	J	COND DISC 0.1 uF 50V +80-20%	R007	92LQCF6A53-104	J	CHIP RES. 100K OHM 1/16 W 5%
C913	92LPRE3953-470	J	COND ELECT 47uF 25V 20%	R008	92LAI20870-022	J	WIRE BARE 22 GA TINNED
C914	92LPRE3953-221	J	COND ELECT 220uF 25V 20%	R009	92LQCF6A53-223	J	CHIP RES. 22K OHM 1/16 W 5%
C919	92LPRD3545-472	J	COND DISC 4700 pF 50V 10%				
C920	92LPRD3545-104	J	COND DISC 0.1 uF 50V 10%	R010	92LQCF6A53-274	J	CHIP RES. 270K OHM 1/16 W 5%
△ C924	92LPVY1705-222	J	COND SAFETY 0.0022UF 250V 20% Y1 Y5U	R011	92LQCF6A53-470	J	CHIP RES. 47 OHM 1/16 W 5%
△ C925	92LPRD2355-102	J	COND DISC 0.001uF 1KV 20%	R012	92LQCF6A53-331	J	CHIP RES. 330 OHM 1/16 W 5%
C926	92LPRE3955-109	J	COND ELECT 1uF 50V 20%	R013	92LQCF6A53-101	J	CHIP RES. 100 OHM 1/16 W 5%
△ C928	92LPVE0995-479	J	COND ELECT 4.7uF 400V 20% 105°C	R014	92LQCF6A53-274	J	CHIP RES. 270K OHM 1/16 W 5%
C929	92LPVE3953-102	J	COND ELECT 1000 uF 25V 20% 85C	R015	92LQCF6A53-331	J	CHIP RES. 330 OHM 1/16 W 5%
C930	92LPRD3545-102	J	COND DISC 1000 pF 50V 10%	R016	92LQCF6A53-100	J	CHIP RES. 10 OHM 1/16 W 5%
C931	92LPVE3952-102	J	COND ELECT 1000 uF 16V 20% 85C	R017	92LQCF6A53-104	J	CHIP RES. 100K OHM 1/16 W 5%
C932	92LPME3954-102	J	COND ELECT 1000 uF 16V 20%	R018	92LQCF6A53-101	J	CHIP RES. 100 OHM 1/16 W 5%
C933	92LPRD3545-102	J	COND DISC 1000 pF 50V 10%	R019	92LQCF6A53-272	J	CHIP RES. 2.7K OHM 1/16 W 5%
C934	92LPRE3953-100	J	COND ELECT 10uF 25V 20%	R020	92LQCF6A53-510	J	CHIP RES. 51 OHM 1/16 W 5%
△ C935	92LPRD354H-471	J	COND DISC 470 pF 1KV 10%	R021	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%
C936,937	92LPRE3951-330	J	COND ELECT 33uF 10V 20%	R022	92LQCF6A53-302	J	CHIP RES. 3K OHM 1/16 W 5%
C938	92LPRD3545-102	J	COND DISC 1000 pF 50V 10%	R023	92LQAF0650-472	J	RESISTOR 4.7K OHM 1/6 W 5% CF
C939,940	92LPME3954-102	J	COND ELECT 1000 uF 16V 20%	R024	92LQAF0650-392	J	RESISTOR 3.9K OHM 1/6 W 5% CF
C941	92LPRD3545-102	J	COND DISC 1000 pF 50V 10%	R025	92LQAF0650-472	J	RESISTOR 4.7K OHM 1/6 W 5% CF
△ C945	92LPRD354H-471	J	COND DISC 470 pF 1KV 10%	R026	92LQCF6A53-473	J	CHIP RES. 47K OHM 1/16 W 5%
C947,948	92LPVE3955-102	J	COND ELECT 1000 uF 50V 20%	R027	92LQCF6A53-562	J	CHIP RES. 5.6K OHM 1/16 W 5%
C949	92LPRD3545-102	J	COND DISC 1000 pF 50V 10%	R028	92LQCF6A53-682	J	CHIP RES. 6.8K OHM 1/16 W 5%
C950A	92LPME3954-470	J	COND ELECT 47 uF 16V 20%	R029	92LQCF6A53-562	J	CHIP RES. 5.6K OHM 1/16 W 5%
C950B	92LPRD3545-103	J	COND DISC 0.01 uF 50V 10%	R030	92LQCF6A53-682	J	CHIP RES. 6.8K OHM 1/16 W 5%
C951A	92LPRD4965-104	J	COND DISC 0.1 uF 50V +80-20%	R031	92LQCF6A53-222	J	CHIP RES. 2.2K OHM 1/16 W 5%
C951B,952A	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	R032	92LQCF6A53-222	J	CHIP RES. 2.2K OHM 1/16 W 5%
C952B	92LPVE3955-102	J	COND ELECT 1000 uF 50V 20%	R033	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%
C953A	92LPME3954-470	J	COND ELECT 47 uF 16V 20%	R034	92LQCF6A53-332	J	CHIP RES. 3.3K OHM 1/16 W 5%
△ C953B	92LPRD2355-102	J	COND DISC 0.001uF 1KV 20%	R035	92LQCF6A53-202	J	CHIP RES. 2K OHM 1/16 W 5%
C954A	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%	R036	92LQCF6A53-331	J	CHIP RES. 330 OHM 1/16 W 5%
△ C954B,955B	92LPVS3959-102	J	COND SAFTY 0.001 uF 400V 20%				
C955A,956A	92LPME3954-470	J	COND ELECT 47 uF 16V 20%				
△ C956B	92LPVY1705-222	J	COND SAFETY 0.0022UF 250V 20% Y1 Y5U				
C957	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%				
C958	92LPME3954-470	J	COND ELECT 47 uF 16V 20%				
C959	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%				
C960	92LPME3954-470	J	COND ELECT 47 uF 16V 20%				
C961	92LPCX3955-104	J	CHIP CAP 0.1 uF 50V 20%				

RESISTORS

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

NO.	PART CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
R037	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%	R301	92LQAF0650-223	J	RESISTOR 22K OHM 1/6 W 5% CF
R038~042	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%	R302,303	92LQAF0650-102	J	RESISTOR 1K OHM 1/6 W 5% CF
R043	92LQAF0650-104	J	RESISTOR 100K OHM 1/6 W 5% CF	R304	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%
R044	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%	R305	92LQAF0650-102	J	RESISTOR 1K OHM 1/6 W 5% CF
R045	92LQCF6A53-470	J	CHIP RES. 47 OHM 1/16 W 5%	R306,307	92LQCF6A53-104	J	CHIP RES. 100K OHM 1/16 W 5%
R046	92LQAF0650-101	J	RESISTOR 100 OHM 1/6 W 5% CF	R308	92LQCF6A53-101	J	CHIP RES. 100 OHM 1/16 W 5%
R047,048	92LQAF0650-223	J	RESISTOR 22K OHM 1/6 W 5% CF	R309,310	92LQAF0650-101	J	RESISTOR 100 OHM 1/6 W 5% CF
R049	92LQCF6A53-332	J	CHIP RES. 3.3K OHM 1/16 W 5%	R311	92LQCF6A53-101	J	CHIP RES. 100 OHM 1/16 W 5%
R050	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%	R312	92LQCF6A53-104	J	CHIP RES. 33 OHM 1/16W 5%
R051	92LQCF6A53-332	J	CHIP RES. 3.3K OHM 1/16 W 5%	R313,314	92LQAF0650-472	J	RESISTOR 4.7K OHM 1/6 W 5% CF
R052	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%	R315~319	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%
R053	92LQCF6A53-104	J	CHIP RES. 100K OHM 1/16 W 5%	R320	92LQCF6A53-561	J	CHIP RES. 560 OHM 1/16W 5 %
R054	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%	R321	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%
R055~057	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%	R322	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%
R058	92LQAF0650-100	J	RESISTOR 10 OHM 1/6 W 5% CF	R401	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%
R059	92LQCF6A53-100	J	CHIP RES. 10 OHM 1/16 W 5%	R402	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%
R060	92LQAF0650-100	J	RESISTOR 10 OHM 1/6 W 5% CF	R403	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%
R061	92LQCF6A53-561	J	CHIP RES. 560 OHM 1/16 W 5%	R404	92LQCF6A53-223	J	CHIP RES. 22K OHM 1/16 W 5%
R1	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%	R405	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%
R81,82	92LQCF6A53-562	J	CHIP RES. 5.6K OHM 1/16 W 5%	R406	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%
R83	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%	R407	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%
R84	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%	R408	92LQCF6A53-223	J	CHIP RES. 22K OHM 1/16 W 5%
R85	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%	R409	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%
R86	92LQCF6A53-183	J	CHIP RES. 18K OHM 1/16 W 5%	R410	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%
R101	92LQCF6A53-104	J	CHIP RES. 100K OHM 1/16 W 5%	R411	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%
R103	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%	R412	92LQCF6A53-223	J	CHIP RES. 22K OHM 1/16 W 5%
R104	92LQCF6A53-271	J	CHIP RES. 270 OHM 1/16 W 5%	R413	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%
R106~108	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%	R414	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%
R110,111	92LQCF6A53-330	J	CHIP RES. 33 OHM 1/16 W 5%	R415	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%
R112	92LSCF0603-470	J	SCHIP BEAD 47 OHM 100MHZ 10% 0603 SMT	R416	92LQCF6A53-223	J	CHIP RES. 22K OHM 1/16 W 5%
R113,114	92LQCF6A53-330	J	CHIP RES. 33 OHM 1/16 W 5%	R417	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%
R115	92LQCF6A53-563	J	CHIP RES. 56K OHM 1/16 W 5%	R418	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%
R116	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%	R419	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%
R119~125	92LQAF0650-330	J	RESISTOR 33 OHM 1/6 W 5% CF	R420	92LQCF6A53-223	J	CHIP RES. 22K OHM 1/16 W 5%
R127~130	92LQCF6A53-750	J	CHIP RES. 75 OHM 1/16 W 5%	R421	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%
R131,132	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%	R422	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%
R133	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%	R423	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%
R134	92LQCF6A53-750	J	CHIP RES. 75 OHM 1/16 W 5%	R424	92LQCF6A53-562	J	CHIP RES. 5.6K OHM 1/16 W 5%
R135,136	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%	R425	92LQCF6A53-473	J	CHIP RES. 47K OHM 1/16 W 5%
R137	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%	R426	92LQCF6A53-683	J	CHIP RES. 68K OHM 1/16 W 5%
R138	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%	R427,428	92LQCF6A53-364	J	CHIP RES. 360K OHM 1/16W 5%
R139	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%	R429	92LQCF6A53-563	J	CHIP RES. 56K OHM 1/16 W 5%
R140	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%	R430	92LQCF6A53-333	J	CHIP RES. 33K OHM 1/16 W 5%
R145	92LQCF6A53-121	J	CHIP RES. 120 OHM 1/16W 5%	R431	92LQCF6A53-473	J	CHIP RES. 47K OHM 1/16 W 5%
R146	92LQCF6A53-151	J	CHIP RES. 150 OHM 1/16 W 5%	R432~434	92LQCF6A53-683	J	CHIP RES. 68K OHM 1/16 W 5%
R150~152	92LQCF6A53-330	J	CHIP RES. 33 OHM 1/16 W 5%	R435	92LQCF6A53-333	J	CHIP RES. 33K OHM 1/16 W 5%
R160~163	92LQCF6A53-330	J	CHIP RES. 33 OHM 1/16 W 5%	R436,437	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%
R166,167	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%	R438,439	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%
R168,169	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%	R440	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%
R174	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%	R441~444	92LQCF6A53-822	J	CHIP RES. 8.2K OHM 1/16 W 5%
				R445,446	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

NO.	PART CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
R447,448	92LQCF6A53-473	J	CHIP RES. 47K OHM 1/16 W 5%	R806	92LQCF6A53-223	J	CHIP RES. 22K OHM 1/16 W 5%
R449,450	92LQCF6A53-682	J	CHIP RES. 6.8K OHM 1/16 W 5%	R807	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%
R451,452	92LQCF6A53-622	J	CHIP RES. 6.2K OHM 1/16 W 5%	R808	92LQCF6A53-273	J	CHIP RES. 27K OHM 1/16 W 5%
R453~458	92LQCF6A53-682	J	CHIP RES. 6.8K OHM 1/16 W 5%	R809,810	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%
R459,460	92LQCF6A53-104	J	CHIP RES. 100K OHM 1/16 W 5%	R811	92LQCF6A53-153	J	CHIP RES. 15K OHM 1/16 W 5%
R461	92LQCF6A53-123	J	CHIP RES. 12K OHM 1/16 W 5%	R812	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%
R462	92LQCF6A53-153	J	CHIP RES. 15K OHM 1/16 W 5%	R813	92LQCF6A53-362	J	CHIP RES. 3.6K OHM 1/16 W 5%
R463	92LQCF6A53-123	J	CHIP RES. 12K OHM 1/16 W 5%	R814	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%
R464	92LQCF6A53-153	J	CHIP RES. 15K OHM 1/16 W 5%	R815	92LQCF6A53-223	J	CHIP RES. 22K OHM 1/16 W 5%
R491,492	92LQCF6A53-683	J	CHIP RES. 68K OHM 1/16 W 5%	R816	92LQCF6A53-180	J	CHIP RES. 18 OHM 1/16 W 5%
R494	92LQAF0650-151	J	RESISTOR 150 OHM 1/6 W 5% CF	R818	92LQCF6A53-180	J	CHIP RES. 18 OHM 1/16 W 5%
R495	92LQAF0650-471	J	RESISTOR 470 OHM 1/6 W 5% CF	R820	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%
R497,498	92LQCF6A53-682	J	CHIP RES. 6.8K OHM 1/16 W 5%	R821~823	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%
R500~504	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%	R825	92LQCF6A53-332	J	CHIP RES. 3.3K OHM 1/16 W 5%
R505~510	92LQCF0451-150	J	CHIP RES. 15 OHM 1/4W 5% CF [HT-CN500DVH/HT-CN500DVE]	R826~828	92LQCF6A53-822	J	CHIP RES. 8.2K OHM 1/16 W 5%
R505~510	92LQCF0451-200	J	CHIP RES. 20 OHM 1/4W 5% [HT-CN400DVH/HT-CN400DVE]	R829,830	92LQCF6A53-101	J	CHIP RES. 100 OHM 1/16 W 5%
R511~522	92LQCF0451-479	J	CHIP RES. 4.7 OHM 1/4W 5% [HT-CN500DVH/HT-CN500DVE]	R831	92LQCF6A53-822	J	CHIP RES. 8.2K OHM 1/16 W 5%
R511~522	92LQCF0451-629	J	CHIP RES. 6.2 OHM 1/4W 5% [HT-CN400DVH/HT-CN400DVE]	R832	92LQCF6A53-101	J	CHIP RES. 100 OHM 1/16 W 5%
R526	92LQCF6A53-473	J	CHIP RES. 47K OHM 1/16 W 5%	R834	92LQCF6A53-473	J	CHIP RES. 47K OHM 1/16 W 5%
R527	92LQCF6A53-332	J	CHIP RES. 3.3K OHM 1/16 W 5%	R835	92LQCF6A53-125	J	CHIP RES. 1.2M OHM 1/16 W 5%
R607	92LQAF0650-100	J	RESISTOR 10 OHM 1/6 W 5% CF	R836	92LQCF6A53-473	J	CHIP RES. 47K OHM 1/16 W 5%
R608	92LQHN1050-561	J	RESISTOR 560 OHM 1W 5% W/ KINK	R837	92LQCF6A53-225	J	CHIP RES. 2.2M OHM 1/16W 5%
R610	92LQCF6A53-153	J	CHIP RES. 15K OHM 1/16 W 5%	R838,839	92LQCF6A53-473	J	CHIP RES. 47K OHM 1/16 W 5%
R611	92LQCF6A53-912	J	CHIP RES. 9.1K OHM 1/16 W 5%	R840	92LQCF6A53-824	J	CHIP RES. 820K OHM 1/16W 5%
R612	92LQCF6A53-153	J	CHIP RES. 15K OHM 1/16 W 5%	R841	92LQCF6A53-332	J	CHIP RES. 3.3K OHM 1/16 W 5%
R613	92LQCF6A53-104	J	CHIP RES. 100K OHM 1/16 W 5%	R842	92LQCF6A53-393	J	CHIP RES. 39K OHM 1/16 W 5%
R615	92LQCF6A53-222	J	CHIP RES. 2.2K OHM 1/16 W 5%	R843,844	92LQCF6A53-180	J	CHIP RES. 18 OHM 1/16 W 5%
R616	92LQCF6A53-104	J	CHIP RES. 100K OHM 1/16 W 5%	R845	92LQCF6A53-223	J	CHIP RES. 22K OHM 1/16 W 5%
R617	92LQAF0250-470	J	RESISTOR 47 OHM 1/2 W 5% CF	R846	92LQCF6A53-225	J	CHIP RES. 2.2M OHM 1/16W 5%
R618	92LQAF0650-103	J	RESISTOR 10K OHM 1/6 W 5% CF	R847	92LQCF6A53-223	J	CHIP RES. 22K OHM 1/16 W 5%
R619	92LQAF0650-472	J	RESISTOR 4.7K OHM 1/6 W 5% CF	R848	92LQCF6A53-824	J	CHIP RES. 820K OHM 1/16W 5%
R620	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%	R849	92LQCF6A53-125	J	CHIP RES. 1.2M OHM 1/16 W 5%
R621,622	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%	R850,851	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%
R623,624	92LQCF6A53-104	J	CHIP RES. 100K OHM 1/16 W 5%	R852	92LQCF6A53-562	J	CHIP RES. 5.6K OHM 1/16 W 5%
R626	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%	R853	92LQCF6A53-333	J	CHIP RES. 33K OHM 1/16 W 5%
R627	92LQCF6A53-104	J	CHIP RES. 100K OHM 1/16 W 5%	R854	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%
R628	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%	R855,856	92LQCF6A53-682	J	CHIP RES. 6.8K OHM 1/16 W 5%
R629,630	92LQCF0451-479	J	CHIP RES. 4.7 OHM 1/4 W 5%	R857	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%
R631,632	92LQCF6A53-229	J	CHIP RES. 2.2 OHM 1/16 W 5%	R858	92LQCF6A53-623	J	CHIP RES. 62K OHM 1/16 W 5%
R633~636	92LQCF6A53-330	J	CHIP RES. 33 OHM 1/16 W 5%	R859~861	92LQCF6A53-682	J	CHIP RES. 6.8K OHM 1/16 W 5%
R637	92LQCF6A53-121	J	CHIP RES. 120 OHM 1/16W 5%	R862,863	92LQCF6A53-333	J	CHIP RES. 33K OHM 1/16 W 5%
R638	92LQCF6A53-151	J	CHIP RES. 150 OHM 1/16 W 5%	R864	92LQCF6A53-363	J	CHIP RES. 36K OHM 1/16 W 5%
R801~803	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%	R865	92LQCF6A53-822	J	CHIP RES. 8.2K OHM 1/16 W 5%
				R866	92LQCF6A53-223	J	CHIP RES. 22K OHM 1/16 W 5%

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

NO.	PART CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
R868	92LQCF6A53-332	J	CHIP RES. 3.3K OHM 1/16 W 5%	R8117~8120	92LQCF6A53-102	J	CHIP RES. 1K OHM 1/16 W 5%
R870	92LQCF6A53-104	J	CHIP RES. 100K OHM 1/16 W 5%	RF901	92LQAS0250-109	J	RESISTOR 1 OHM 1/2W 5%
R871	92LQCF6A53-472	J	CHIP RES. 4.7K OHM 1/16 W 5%	OTHER CIRCUITRY PARTS			
R873	92LQCF6A53-100	J	CHIP RES. 10 OHM 1/16 W 5%	CN001	92LCCN1500-042	J	CONNECTOR S2B-XH-A 2 PIN
R875	92LQCF6A53-681	J	CHIP RES. 680 OHM 1/16 W 5%	CN202	92LCCN7879-027	J	CONNECTOR 7 PIN PITCH=2.0mm
R876	92LQCF6A53-122	J	CHIP RES. 1.2K OHM 1/16 W 5%	CN203	92LCCN7879-025	J	CONNECTOR 5 PIN PITCH=2.0mm
R878,879	92LQCF6A53-223	J	CHIP RES. 22K OHM 1/16 W 5%	CN301	92LVFL41125520	J	CON/WIRE 4P 200mm UL2468#26 BLK
R880	92LQCF6A53-182	J	CHIP RES. 1.8K OHM 1/16 W 5%	CN600	92LCCN7879-034	J	CONNECTOR 14 PIN PITCH=2.0mm
R881	92LQCF6A53-122	J	CHIP RES. 1.2K OHM 1/16 W 5%	CN601	92LCCN1500-018	J	CONNECTOR B2B-XH-A 2 PIN
R882	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%	CN602	92LCCN1500-037	J	CONNECTOR B8B-XH-A 8 PIN
R883	92LQCF6A53-682	J	CHIP RES. 6.8K OHM 1/16 W 5%	CN606	92LCCN3962-004	J	CONNECTOR 4 PIN CL3962WVO
R884	92LQCF6A53-000	J	CHIP RES. 0 OHM JUMP WIRE	CN801	92LCCN7879-025	J	CONNECTOR 5 PIN PITCH=2.0mm
R887	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%	CN803	92LCHC0505-824	J	CHIP CONNECTOR 24PIN PITCH=0.5mm 90°
R888	92LQCF6A53-221	J	CHIP RES. 220 OHM 1/16 W 5%	CN902	92LCCN3951-234	J	CONNECTOR 4 PIN P=3.96mm
R889	92LQCF6A53-562	J	CHIP RES. 5.6K OHM 1/16 W 5%	CN608	92LCCN7879-023	J	CONNECTOR 3 PIN PITCH=2.0mm
R890	92LQCF6A53-105	J	CHIP RES. 1M OHM 1/16 W 5%	CN609	92LCCN7879-024	J	CONNECTOR 4 PIN PITCH=2.0mm
R891	92LQCF6A53-331	J	CHIP RES. 330 OHM 1/16 W 5%	CN802	92LCCN1231-006	J	CONNECTOR 6P P=1.0mmx2
R893	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%	DP301	92LKL0016-020	J	FL DISPLAY VA84x9PA118.2x20.5mm
R894	92LQCF6A53-683	J	CHIP RES. 68K OHM 1/16 W 5%	EF001	92LWTP0011-004	J	TUNER PACK KWAGSUN KST-F404HA-2B (EU)
R895	92LQCF6A53-000	J	CHIP RES. 0 OHM JUMP WIRE	△ F901	92LKSA2315-012	J	FUSE 3.15A 250V SLOW (WALTER TSD)
R901,902	92LQAF0250-564	J	RESISTOR 560K OHM 1/2 W 5% CF	JK001	92LCJA3134-008	J	RF JACK FEMALE TYPE ID1.44mm
R903,904	92LQAF0250-205	J	RESISTOR 2M OHM 1/2 W 5% CF	JK101	92LCJC0004-002	J	RCA+DIN JK 1RCA+4P DIN YEL W/GND
R905,906	92LQVN2050-683	J	RESISTOR 68K OHM 2W 5% W/KINK	JK301	92LCJM9380-302	J	PHONE JACK D3.5 5PIN BLACK
R907	92LQAF0450-479	J	RESISTOR 4.7 OHM 1/4 W 5% CF	JK401	92LCJR6506-Y06	J	RCA JACK 6P WHTx3/REDx3 AXIAL W/GND TIN
R908	92LQAF0650-689	J	RESISTOR 6.8 OHM 1/6 W 5% CF	JK500	92LCJS1001-001	J	SPK JACK 12P RD-WH-GRN-GRY-BLU-VIO/BKX6
R919	92LQAF0650-103	J	RESISTOR 10K OHM 1/6 W 5% CF	RB301	92LVFL41125520	J	CON/WIRE 4P 200mm UL2468#26 BLK
R920,921	92LQAF0650-102	J	RESISTOR 1K OHM 1/6 W 5% CF	RB303	92L500341008B0	J	CON/WIRE 4P 100mm BLK
R922	92LQAF0650-563	J	RESISTOR 56K OHM 1/6 W 5% CF	RB304	92LVFLE0124614	J	CON FLAT CABLE 14P 140mm 2468#26 RAINBOW
R923	92LQAF0610-103	J	RESISTOR 10K OHM 1/6W 1% CF	RB904	92LVFL81131B07	J	FLAT CABLE 8P 70mm 2468#26 A=2.5mm
R924	92LQAF0650-202	J	RESISTOR 2K OHM 1/6 W 5% CF	RB905	92LVWA3109-011	J	CON/WIRE 4P 80mm 1015#18 A=3.96VH
R925	92LQAM061-2701	J	RESISTOR 2.7K OHM 1/6 W 1% MF	RB906	92LVFL31224506	J	CON FLAT CABLE 3P 60mm 2468#24 BLK
R926	92LQAS2050-220	J	RESISTOR 22 OHM 1/2W FUSIBLE METAL FILM	RL901	92LMRL2205-001	J	RELAY 5VDC 40mA
△ R928	92LQAS2511-121	J	RESISTOR 120 OHM 1/2W FUSIBLE METAL FILM	△ RT901	92LRNT0130-509	J	NTC 5 OHM 5A DIA=13 mm
R930	92LQAF0250-104	J	RESISTOR 100K OHM 1/2W 5% CF	SN1	92LRHI0615-001	J	OPT SENSOR SFH615A-3
R931	92LQAF0650-750	J	RESISTOR 75 OHM 1/6 W 5% CF	SN201	92LRHO2038-201	J	IRT SENSOR IRM-2038S5F2 EVERLIGHT
R932	92LQAF0650-202	J	RESISTOR 2K OHM 1/6 W 5% CF	SN901	92LRHI0615-001	J	OPT SENSOR SFH615A-3
R933	92LQAF0650-221	J	RESISTOR 220 OHM 1/6 W 5% CF	TA301	92LMAT2029-001	J	AI TACT SW SKHVB3520 ALPS [On/Stand-by]
R934	92LQAF0650-470	J	RESISTOR 47 OHM 1/6 W 5% CF	TA302	92LMAT2029-001	J	AI TACT SW SKHVB3520 ALPS [Stop]
R945	92LQAF0610-103	J	RESISTOR 10K OHM 1/6W 1% CF	TA303	92LMAT2029-001	J	AI TACT SW SKHVB3520 ALPS [Fast Forward]
R952	92LQAS0250-109	J	RESISTOR 1 OHM 1/2W 5%	TA304	92LMAT2029-001	J	AI TACT SW SKHVB3520 ALPS [Fast Reverse]
R8100	92LQCF6A53-000	J	CHIP RES. 0 OHM JUMP WIRE	TA305	92LMAT2029-001	J	AI TACT SW SKHVB3520 ALPS [Volume Down]
R8102	92LQCF6A53-000	J	CHIP RES. 0 OHM JUMP WIRE	TA306	92LMAT2029-001	J	AI TACT SW SKHVB3520 ALPS [Mode]
R8104	92LQCF6A53-000	J	CHIP RES. 0 OHM JUMP WIRE	TA307	92LMAT2029-001	J	AI TACT SW SKHVB3520 ALPS [Function]
R8106	92LQCF6A53-101	J	CHIP RES. 100 OHM 1/16 W 5%	TA308	92LMAT2029-001	J	AI TACT SW SKHVB3520 ALPS [Volume Up]
R8109	92LQCF6A53-331	J	CHIP RES. 330 OHM 1/16 W 5%	TA309	92LMAT2029-001	J	AI TACT SW SKHVB3520 ALPS [Play]
R8111	92LQCF6A53-000	J	CHIP RES. 0 OHM JUMP WIRE	TA310	92LMAT2029-001	J	AI TACT SW SKHVB3520 ALPS [Open/Close]
R8113	92LQCF6A53-101	J	CHIP RES. 100 OHM 1/16 W 5%				
R8115	92LQCF6A53-103	J	CHIP RES. 10K OHM 1/16 W 5%				
R8116	92LQCF6A53-682	J	CHIP RES. 6.8K OHM 1/16 W 5%				

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

NO.	PART CODE	★ PRICE RANK	DESCRIPTION
CABINET PARTS			
201	92L2005-001	J	DVD Logo
202	92LBPD2009-001	J	DVD DOOR [HT-CN500DVH/HT-CN500DVE]
202	92LBPD2009-002	J	DVD DOOR [HT-CN400DVH/HT-CN400DVE]
203	92LBPL2006-001	J	SHARP LOGO ABS
204	92LBPF2021-001	J	FRONT PANEL [HT-CN500DVH/HT-CN500DVE]
204	92LBPF2021-002	J	FRONT PANEL [HT-CN400DVH/HT-CN400DVE]
205	92LBPK21801501	J	OPEN CLOSE KNOB [HT-CN500DVH/HT-CN500DVE]
205	92LBPK21801502	J	OPEN CLOSE KNOB [HT-CN400DVH/HT-CN400DVE]
206	92LBPK20801501	J	POWER KEY ABS
207	92LBPK26801501	J	OPEN CLOSE KEY HOLDER ABS
208	92LBPK27801501	J	POWER HOLDER ABS
209	92LGSE2058-001	J	BOTTOM CAB SECC T=0.8mm
210	92LWVD1008-001	J	DVD LOADER SANYO: DVD-KDA898SP
211	92LDSS0022-005	J	SPACRE SURPORT A=9.0 B=1.2-1.8mm
212	92LGSE1327-001	J	BRACKET (L) SECC T=1.0mm
213	92LGAL1139-001	J	HEAT SINK AL H=28mm
214	92LGAL2021-001	J	HEATSINK AL L113xH34.5xT5.0 BLACK
△ 215	92LVPE10625310	J	LINE CORD 3P [HT-CN400DVE/HT-CN500DVE]
△ 215	92L2559-022G22	J	LINE CORD 2P 1980mm BLK VDE W/3.96VH 4P [HT-CN400DVH/HT-CN500DVH]
216	92LBPN2021-001	J	DISPLAY LENS PMMA
217	92LBPK23801501	J	CHANGE KEY ABS
218	92LBPK22801501	J	FUNCTION KNOB [HT-CN500DVH/HT-CN500DVE]
218	92LBPK22801502	J	FUNCTION KNOB [HT-CN400DVH/HT-CN400DVE]
219	92LBPK25801501	J	FUNCTION KEY HOLDER ABS
220	92LDSP10400401	J	SPRING 0.3 OD (4~8)xL8mm
221	92LGSE2061-001	J	PHONE BRACKET SECC T=0.8mm
222	92LIVE2013-001	J	FL SPONGE L20xW10xT6.0mm
223	92LGAL2022-001	J	HEAT SINK AL (MAIN PCB)
224	92LBPH0025C000	J	HOLDER FM HOLDER,0.13g
225	92LFAN02120802	J	DC FAN 12V 70mA SUNON 0.8W
226	92LHOT1004-001	J	SNAP RIVET DIA4xH20mm BLK PINGOOD
227	92LGSE2060-001	J	BACK CAB [HT-CN500DVH]
227	92LGSE2060-002	J	BACK CAB [HT-CN400DVH]
227	92LGSE2060-003	J	BACK CAB [HT-CN500DVE]
227	92LGSE2060-004	J	BACK CAB [HT-CN400DVE]
228	92LGSE2059-101	J	TOP COVER (CHANGE HOLE PLACE)
229	92LDBU0002-002	J	BUSHING AC LINE BUSHING
△ 230	92LCFC2557-001	J	FUSE CLIP DIA5xL20mm FUSE
231	92LBFP1253-001	J	PVC SHEET
601	92LH101001-108	J	SCREW T3.0xL8xP1.06mm
602	92LH120309-106	J	SCREW M3.0xP0.5x6,0.5g
603	92LH120309-108	J	SCREW M3.0xP0.5x8
604	92LHSF4384-106	J	SCREW STEEL SCREW M3xP0.5xL6mm FLAT HEAD
605	92LH101001-110	J	SCREW T3.0xL10xP1.06mm

ACCESSORIES/PACKING PARTS

1	92LASW5022-012	J	CABLE A'SSY (Surround Speaker)
1	92LASW5022-116	J	CABLE A'SSY (Subwoofer)
1	92LASW5022-117	J	CABLE A'SSY (Front Speaker)
1	92LASW5022-118	J	CABLE A'SSY (Front Speaker)
1	92LASW5022-119	J	CABLE A'SSY (Surround Speaker)
1	92LASW5022-122	J	CABLE A'SSY (Center Speaker)
2	92LCN400E-0267	J	CARTON [HT-CN400DVH]
2	92LCN400U-0273	J	CARTON [HT-CN400DVE]
2	92LCN500E-0267	J	CARTON [HT-CN500DVH]
2	92LCN500U-0275	J	CARTON [HT-CN500DVE]
3	92LCN400E-0270	J	OWNER'S MANUAL [HT-CN400DVH/HT-CN500DVH]
3	92LCN500U-270	J	OWNER'S MANUAL [HT-CN400DVE/HT-CN500DVE]
4	92LCN500H-0001	J	REMOTE CONTROL CG EUROPE
5	92LITF2041-001	J	POLYFORM TOP EPS
6	92LITF2042-001	J	POLYFORM MIDDLE
7	92LITF2043-001	J	POLYFORM BOTTOM
8	92LIVA5211-021	J	P.E. BAG (Speaker Cable)
9	92LVTA1002-010	J	LOOP ANT 2000mm 1007#26/ 1691#24 7Ts
10	92LVTA4003-030	J	FM ANT 1500mm 1007#24 TC W/TERMINAL BLK
11	92LYOM2004-102	J	QUICK GUIDE [HT-CN400DVE/HT-CN500DVE ONLY]
12	92LVSC0002-002	J	SCART CABLE 1500mm BLACK

P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A1,2	92LAPE2491-005	J	MAIN/SCART PCB ASS'Y
PWB-B1~3	92LAPE2620-001	J	Display/EARPHONE/STANDBY PCB ASS'Y
△ PWB-C	92LAPE263-001	J	POWER PCB ASS'Y

CP-CN400HF/CP-CN400EF/CP-CN500HF/CP-CN500EF

FRONT SPEAKER

901	92LASW5031-136	J	CLOTH FRAME A'SSY
902	92LBPK2024-002	J	FRONT PANEL FOR SPK. HI-PS PAINT: SILVER
903	92LBPA2003-002	J	REAR CAB. FOR SPEAKER PAINT: SILVER
904	92LBPL2007-002	J	SPEAKER LOGO WHITE CHROME SILVER
905	92LBRB0049-002	J	RUBBER DIA14xT2mm WHITE
906	92LASW5011-065	J	CONNECTOR WIRE A'SSY
907	92LNSR5452-B81	J	SCREW M3.0xL8mm
908	92LNST54828122	J	SCREW M3.5xL8mm
909	92LYLB5177-101	J	BACK LABEL [CP-CN500HF]
909	92LYLB5177-105	J	BACK LABEL [CP-CN500EF]
909	92LYLB5177-201	J	BACK LABEL [CP-CN400HF]
909	92LYLB5177-205	J	BACK LABEL [CP-CN400EF]
910	92LYLB5244-005	J	LABEL,LEFT [CP-CN400HF/CP-CN500HF]
910	92LYLB5244-006	J	LABEL,RIGHT [CP-CN400HF/CP-CN500HF]
910	92LYLB5244-010	J	LABEL,LEFT [CP-CN400EF/CP-CN500EF]
910	92LYLB5244-011	J	LABEL,RIGHT [CP-CN400EF/CP-CN500EF]
SP1,2	92LFSA51303388	J	SPEAKER

PACKING PARTS

92LIVA5211-050	J	PE BAG
92LIVH5201-003	J	SHEET

HT-CN400DVH/HT-CN400DVE/HT-CN500DVH/HT-CN500DVE

NO.	PART CODE	★ PRICE RANK	DESCRIPTION
CP-CN400HR/CP-CN400ER/CP-CN500HR/CP-CN500ER			
SURROUND SPEAKER			
901	92LASW5031-136	J	CLOTH FRAME A'SSY
902	92LBPK2024-002	J	FRONT PANEL FOR SPK. HI-PS PAINT: SILVER
903	92LBPA2003-002	J	REAR CAB. FOR SPEAKER PAINT: SILVER
904	92LBPL2007-002	J	SPEAKER LOGO WHITE CHROME SILVER
905	92LBRB0049-002	J	RUBBER DIA14xT2mm WHITE
906	92LASW5011-065	J	CONNECTOR WIRE A'SSY
907	92LNSR5452-B81	J	SCREW M3.0xL8mm
908	92LNST54828122	J	SCREW M3.5xL8mm
909	92LYLB5177-102	J	BACK LABEL [CP-CN500HR]
909	92LYLB5177-106	J	BACK LABEL [CP-CN500ER]
909	92LYLB5177-202	J	BACK LABEL [CP-CN400HR]
909	92LYLB5177-206	J	BACK LABEL [CP-CN400ER]
910	92LYLB5244-007	J	LABEL,LEFT [CP-CN400HR/CP-CN500HR]
910	92LYLB5244-008	J	LABEL,RIGHT [CP-CN400HR/CP-CN500HR]
910	92LYLB5244-012	J	LABEL,LEFT [CP-CN400ER/CP-CN500ER]
910	92LYLB5244-013	J	LABEL,RIGHT [CP-CN400ER/CP-CN500ER]
SP1,2	92LFSA51303386	J	SPEAKER
PACKING PARTS			
	92LIVA5211-050	J	PE BAG
	92LIVH5201-003	J	SHEET

CP-CN400HC/CP-CN400EC/CP-CN500HC/CP-CN500EC			
CENTER SPEAKER			
901	92LASW5031-136	J	CLOTH FRAME A'SSY
902	92LBPF2024-002	J	FRONT PANEL FOR SPK. HI-PS PAINT: SILVER
903	92LBPA2003-002	J	REAR CAB. FOR SPEAKER PAINT: SILVER
904	92LBPL2007-002	J	SPEAKER LOGO WHITE CHROME SILVER
905	92LBRB0049-002	J	RUBBER DIA14xT2mm WHITE
906	92LASW5011-065	J	CONNECTOR WIRE A'SSY
907	92LNSR5452-B81	J	SCREW M3.0xL8mm
908	92LNST54828122	J	SCREW M3.5xL8mm
909	92LYLB5177-103	J	BACK LABEL [CP-CN500HC]
909	92LYLB5177-107	J	BACK LABEL [CP-CN500EC]
909	92LYLB5177-203	J	BACK LABEL [CP-CN400HC]
909	92LYLB5177-207	J	BACK LABEL [CP-CN400EC]
910	92LYLB5244-009	J	LABEL,CENTER [CP-CN400HC/CP-CN500HC]
910	92LYLB5244-014	J	LABEL,CENTER [CP-CN400EC/CP-CN500EC]
SP1,2	92LFSA51333808	J	SPEAKER
PACKING PARTS			
	92LIVA5211-050	J	PE BAG
	92LIVH5201-003	J	SHEET

CP-CN400HSW/CP-CN400ESW/CP-CN500HSW/CP-CN500ESW			
SUBWOOFER			
901	92LASW50310137	J	CLOTH FRAME A'SSY
902	92LBPF2025-002	J	FRONT PANEL FOR SUB. HI-PS PAINT :SILVER
903	92LEVW51111211	J	WRAP BOARD10 EVW510011-1211
904	92LBPR2001-001	J	PORT FOR SUB. HI-PS
905	92LDPP51393604	J	PAPER TUBE
906	92LVWT13441116	J	CONNECTOR+TERMINAL
907	92LYLB5177-104	J	BACK LABEL [CP-CN500HSW]
907	92LYLB5177-108	J	BACK LABEL [CP-CN500ESW]

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
907	92LYLB5177-204	J	BACK LABEL [CP-CN400HSW]
907	92LYLB5177-208	J	BACK LABEL [CP-CN400ESW]
908	92LNSR54818141	J	SCREW M3.5xL14mm
909	92LBRB0049-002	J	RUBBER DIA14xT2mm WHITE
SP1	92LFSB52565664	J	SPEAKER
PACKING PARTS			
	92LIVA5211-070	J	PE BAG
	92LIVH5201-009	J	SHEET

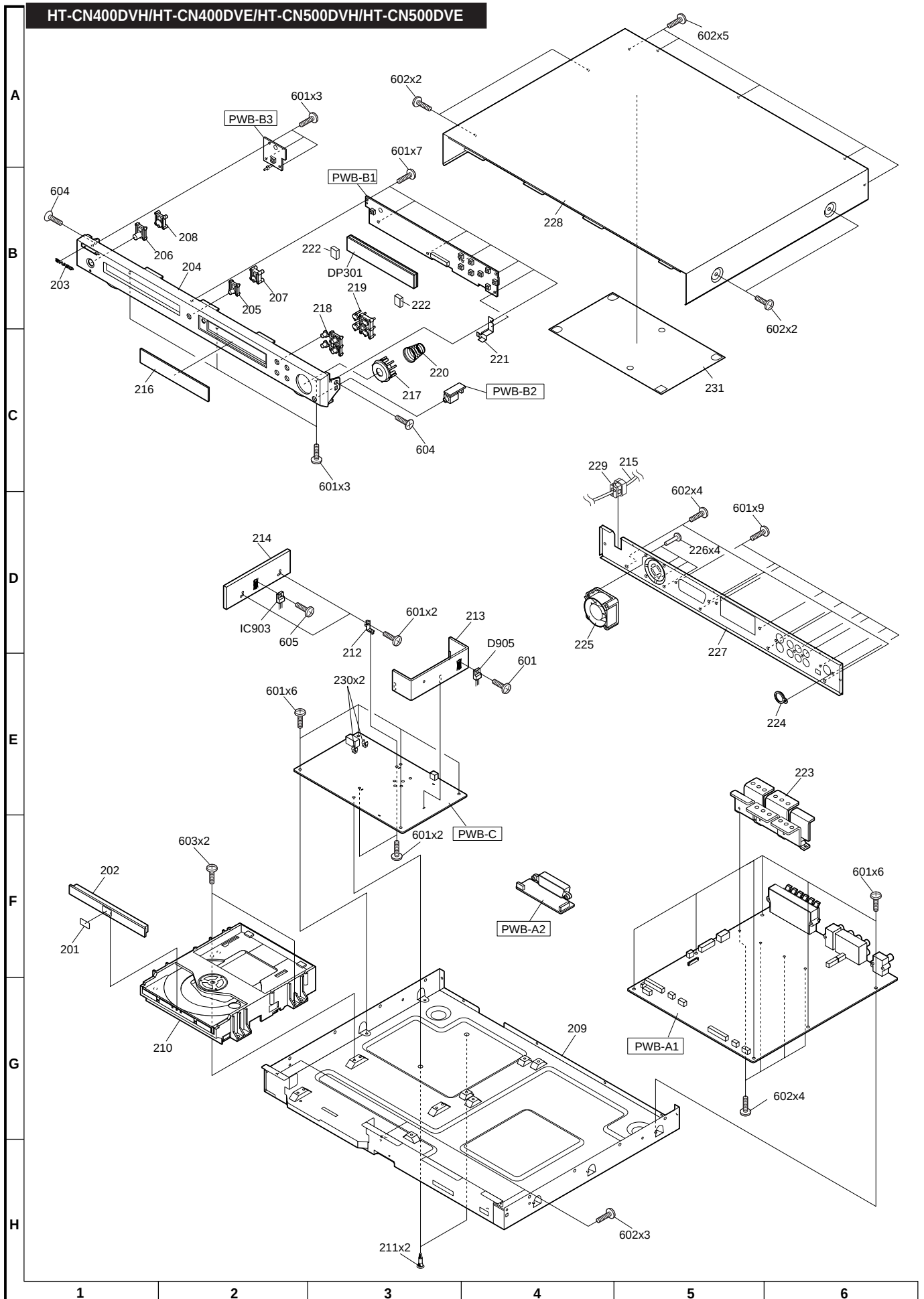


Figure 10 CABINET EXPLODED VIEW

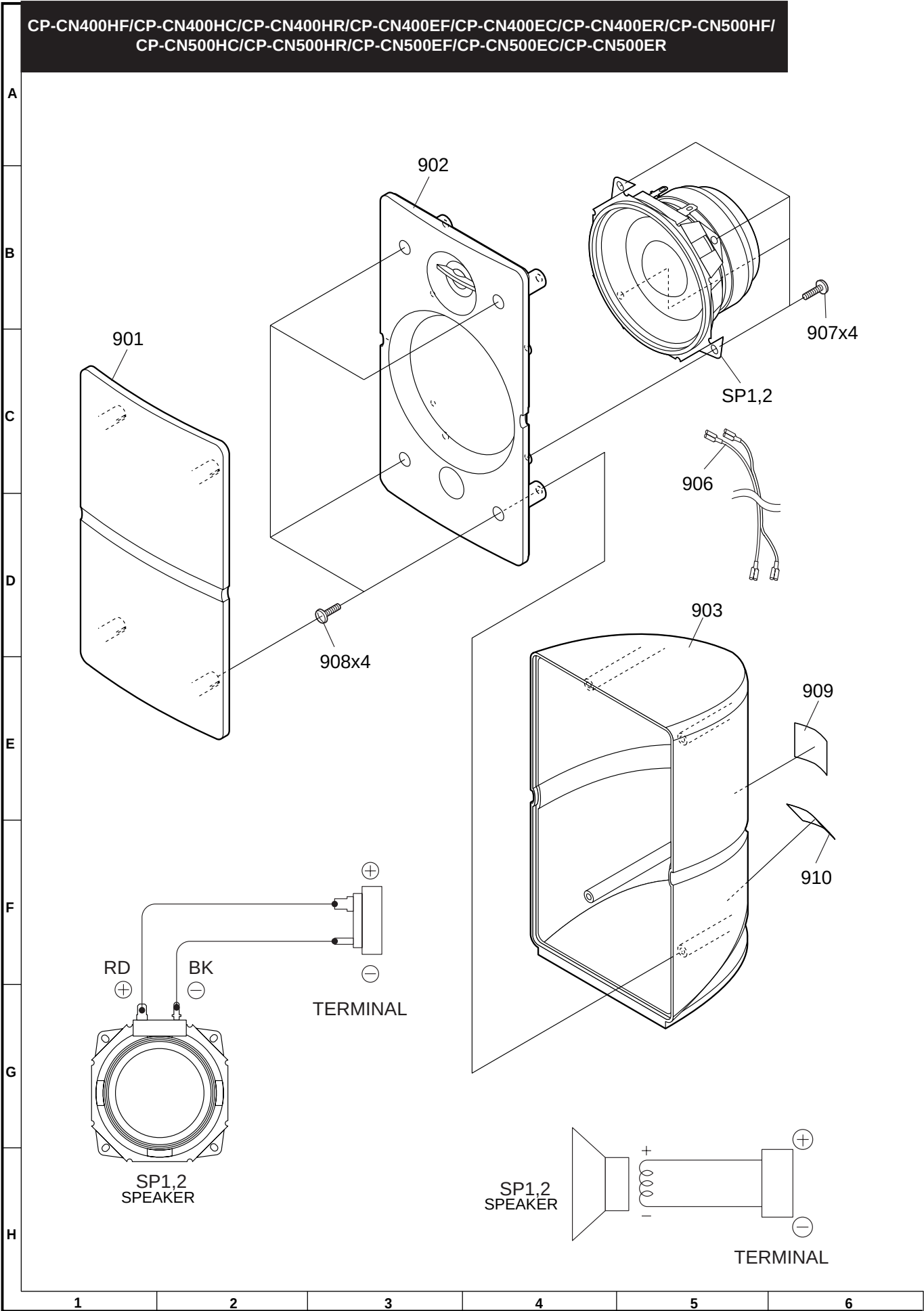


Figure 11 SPEAKER EXPLODED VIEW (1/2)

CP-CN400HSW/CP-CN400ESW/CP-CN500HSW/CP-CN500ESW

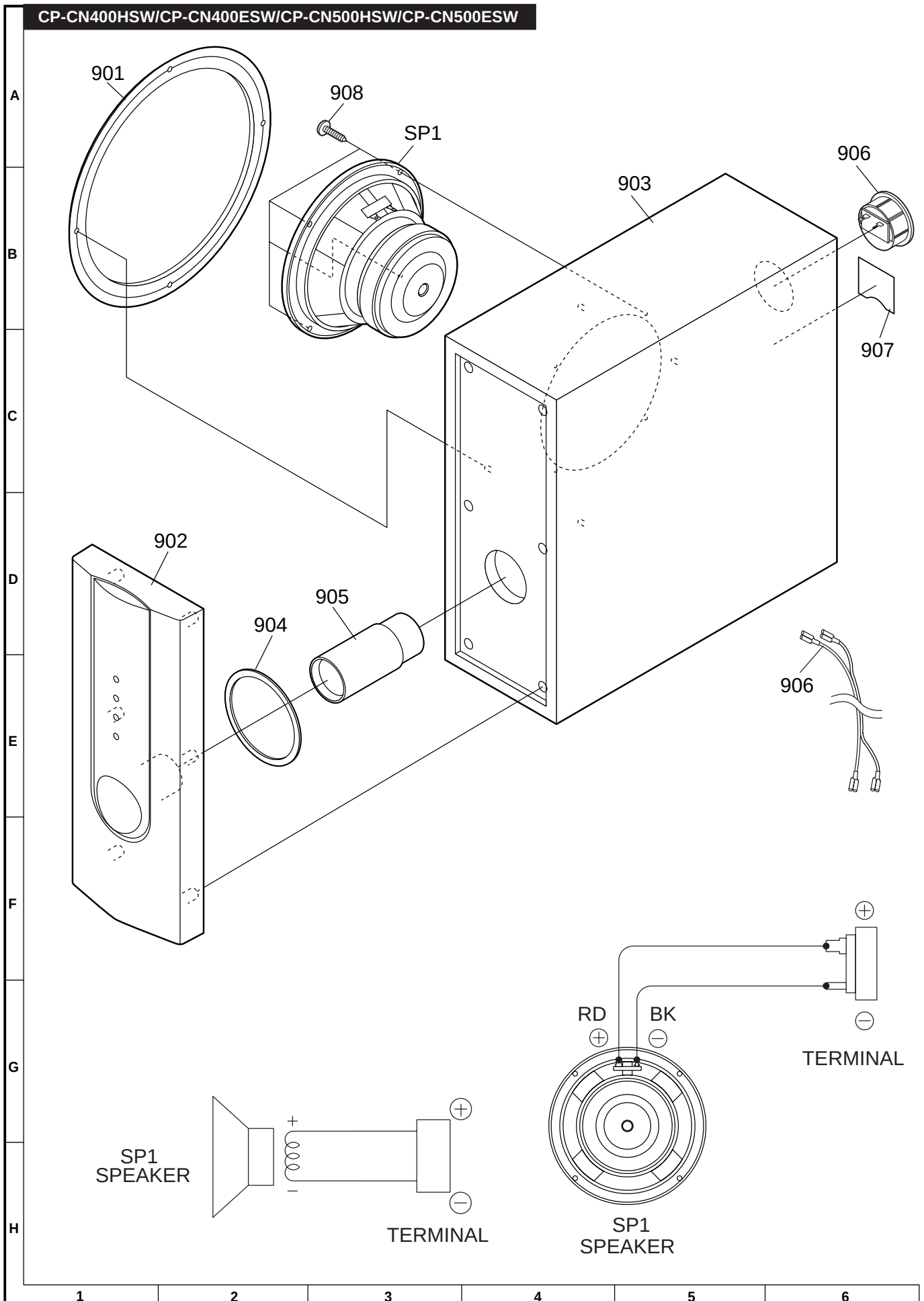


Figure 12 SPEAKER EXPLODED VIEW (2/2)

PACKING METHOD (FOR U.K. ONLY)

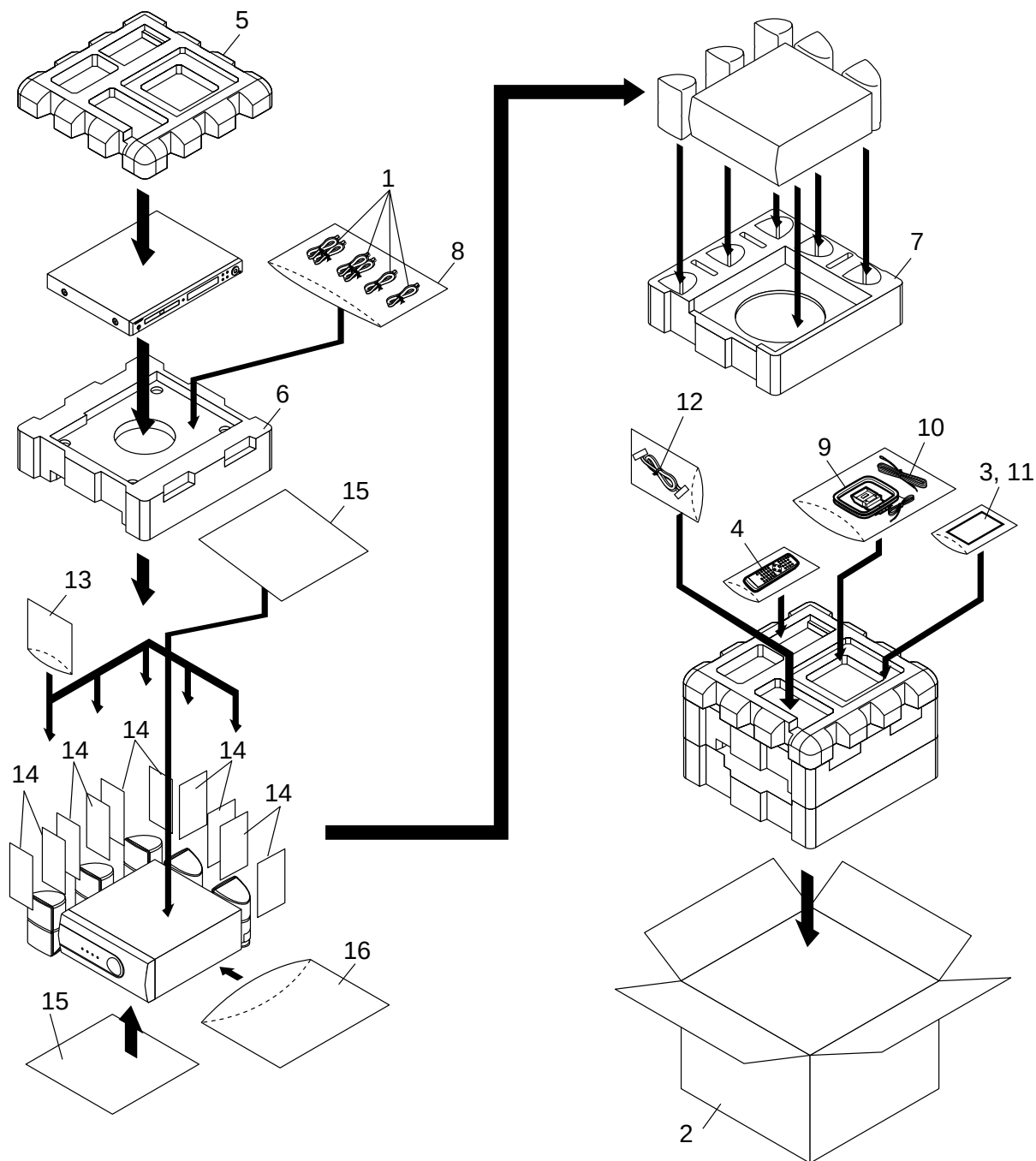
HT-CN400DVE/HT-CN500DVE

- | | |
|-----------------------------------|----------------|
| 1. Speaker Cord (Surround) | 92LASW5022-012 |
| 1. Speaker Cord (Surround) | 92LASW5022-119 |
| 1. Speaker Cord (Front Speaker) | 92LASW5022-117 |
| 1. Speaker Cord (Front Speaker) | 92LASW5022-118 |
| 1. Speaker Cord (Center Speaker) | 92LASW5022-122 |
| 1. Speaker Cord (Subwoofer) | 92LASW5022-116 |
| 2. Packing Case [HT-CN400DVE] | 92LCN400U-0273 |
| 2. Packing Case [HT-CN500DVE] | 92LCN500U-0275 |
| 3. Operation Manual | 92LCN500U-270 |
| 4. Remote Control | 92LCN500H-0001 |
| 5. Packing Add. Top | 92LITF2041-001 |
| 6. Packing Add. Middle | 92LITF2042-001 |
| 7. Packing Add. Bottom | 92LITF2043-001 |
| 8. Polyethylene Bag, Speaker Cord | 92LIVA5211-021 |
| 9. AM Loop Antenna | 92LVTA1002-010 |
| 10. FM Antenna | 92LVTA4003-030 |

- | | |
|-----------------|----------------|
| 11. Quick Guide | 92LYOM2004-102 |
| 12. SCART Cable | 92LVSC0002-002 |

**CP-CN400EF/CP-CN500EF/CP-CN400EC/CP-CN500EC/
CP-CN400ER/CP-CN500ER/CP-CN400ESW/CP-CN500ESW**

- | | |
|--|----------------|
| 13. Polyethylene Bag, Speaker | 92LIVA5211-050 |
| 14. Sheet, Front/Center/Surround Speaker | 92LIVH5201-003 |
| 15. Sheet, Subwoofer | 92LIVH5201-005 |
| 16. Polyethylene Bag, Subwoofer | 92LIVA5211-070 |



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